Agenda

• Welcome & Introductions
• Project Overview
• Permitting Process
• Project Benefits
• Next Steps
• Q&A
Project Overview
SouthCoast Wind

Lease Area
- 127,000 acres
- 149 Positions for turbines & offshore substation platforms
- Uniformly spaced 1 nm x 1 nm grid for layout

Generation Potential
- Up to 2,400 MW

Two Delivery Points
- Brayton Point, Somerset, MA
  - 1,200 MW
- Falmouth, MA
  - 1,200 MW
Overview of Project Components

**Key**

- **AC**: Alternating current
- **DC**: Direct current
- **kV**: Kilovolt (measures voltage)
- **MW**: Megawatt (measures bulk power)
- **POI**: Point of interconnection to the regional grid

* BOEM review covers entire project
Brayton Point Export Cable Route

Export Cable Route (approx.):
- Federal Waters (90 mi)
- Sakonnet River (16 mi)
- Overland in Portsmouth (2 mi)
- Mount Hope Bay (6 Miles)

Cable Bundle Specs & Logistics:
- # of Cable Bundles: 1
- Bundle Diameter: Approx. 13"
- Target Burial Depth: 6'
Onshore Routing in Portsmouth

Routing Analysis

- Follows existing roads
- Prioritizes routes to the northeast to avoid passage through dense residential neighborhoods

Construction Logistics

- Rolling lane closures
- Coordination w/ town & DOT on timing, noise, traffic, etc.
- Construction activities to occur in off-season to the maximum extent practicable
Sea-to-Shore Transition

Horizontal Directional Drilling (HDD)
- Trenchless method used at all landfall sites to avoid seabed and ground surface disturbance
- Use of HVDC cables reduces number and size of HDDs

Cables will be located deep under the beach/shoreline and protected from exposure by erosion
Indicative Construction – Before & After

Linear Trenching

Newly seeded
Permitting Process
Permitting Process – At a Glance

**FEDERAL**
- BOEM (Bureau of Ocean Energy Management)
- US Army Corps of Engineers
- NOAA (National Oceanic and Atmospheric Administration)
- Fisheries
- National Park Service

**RI STATE**
- CRMC (Cooperative Research and Monitoring Center)
- Division of Public Utilities & Commerce
- RI Historical Preservation & Heritage Commission
- DEM (Department of Environmental Management)
- Rhode Island

**MA STATE**
- MassDEP (Massachusetts Department of Environmental Protection)
- Division of Public Utilities & Commerce
- Massachusetts Office of Coastal Zone Management
- MassDOT (Massachusetts Department of Transportation)
- Natural Heritage & Endangered Species Program
- Massachusetts Division of Fisheries & Wildlife
- MassWildlife

**LOCAL**
- Town of Somerset
- Martha's Vineyard Commission
- Board of Underwater Archaeological Resources

**SOUTHCOAST WIND**
Studies and Assessments Overview

**Physical Environment Studies**
- Geology and sediment quality
- Geotechnical surveys
- Wind and metocean conditions

**Fauna Studies**
- Fisheries (including benthic habitat)
- Birds and bats
- Marine mammals
- Sea turtles
- Subsea noise propagation modeling

**Flora Studies**
- Wetlands and onshore ecology
- Seafloor surveys
- Seagrass and macroalgae field surveys

**Socioeconomic Studies**
- Commercial and recreational fishing activity
- Electric and Magnetic Fields
- Marine transportation and hazard studies
- Archaeology and historic properties
- Aviation studies
- Supply chain, ports, and harbor evaluation
- Noise and traffic impact studies
Project Benefits

Climate Change
Grid Reliability
Economic Development
Community Connections
Contribution to Net-Zero Emissions

SouthCoast Wind will be among the largest contributors towards meeting New England’s net-zero emissions goals.

The project will **power more than 1 million homes**, and **eliminate over 4 million metric tons of GHGs** per year.

Equivalent to annually offsetting:

- 4.4 Billion pounds of coal burned
- 10 Average natural gas power plants
- 860,000+ Gas-powered vehicles

Source: U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator
Improved Grid Reliability

“...the operation of this renewable resource and deliveries of its entire output over the transmission cables that traverse through Rhode Island will bring important reliability benefits for all consumers in New England who rely on the integrated regional system, including Rhode Islanders.”

Rhode Island Energy Facility Siting Board, re: Revolution Wind

ISO-NE transmission map, highlighting transmission lines from Brayton Point to Aquidneck Island
Economic Development

“SouthCoast Wind provides expansion opportunities for our existing Blue-economy sector companies and strengthens our momentum as we continue to develop new offshore wind projects.”

Elizabeth M. Tanner, RI Secretary of Commerce

- **8,000+ direct FTE jobs** in Rhode Island and surrounding region during construction and operation
- **Millions of dollars in submerged lands lease fees** for the offshore route in Rhode Island waters
- **Significant supply chain opportunities** with emphasis on procurement from RI
- Advances and attracts additional investments in the **Blue Economy industry** in Rhode Island and the region
Thank You!

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