Overview of Regional Activities and Environmental and Siting Issues

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MA Wind Working Group Meeting
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Deepwater Wind

• Deepwater Wind is America’s leading offshore wind and transmission developer, actively developing projects off both the East and West Coasts.
• The Company is led by a veteran management team with extensive experience in developing renewable-energy projects throughout the United States.
• The Company is actively planning offshore wind projects to serve multiple markets, including Rhode Island, Massachusetts, New York, New Jersey and Oregon.
• The Company’s Block Island Wind Farm is on target to become the nation’s first offshore wind farm.
• Visit www.dwwind.com for more info, or follow us on Twitter @DeepwaterWind.
Block Island Wind Farm

• On schedule for commercial operation in 2016

• Size: 30 megawatts – enough power for 17,000 homes

• Revenue: 20-year PPA with National Grid approved

• Turbines: Latest 6 megawatt offshore turbine

• Cable: 18 miles from Block Island to mainland

• Permits: All local and state permits approved, federal permits expected by June 2014
Deepwater ONE

A Regional Energy Center to Serve Multiple Markets in the Northeast
Regional Offshore Update
Permitting

- Bureau of Ocean Energy Management (BOEM)
- US Army Corps of Engineers
- US Coast Guard
- National Marine Fisheries Service
- US Fish and Wildlife Service
- US Environmental Protection Agency
- Federal Aviation Administration
- State environmental and coastal agencies
- Municipalities where cables come ashore
- Many stakeholders including: eNGOS, Tribes, citizens
Key Siting Issues

• Marine mammals
• Fishing
• Cultural resources
• Avian and bat
• Visual
• Other ocean uses (DOD, etc)
Environmental Studies

Field Surveys:
- Archeological (Marine and Terrestrial)
- Visual Impact Assessment (including historic properties)
- Wetland Delineation
- Sensitive Habitat Surveys
- Avian and Bat Surveys
- Benthic ROV Surveys
- Trawl and Lobster Surveys
- Recreational Boating Surveys
- Marine Mammal and Sea Turtle Surveys

Desktop Studies:
- EMF modeling
- EFH Analysis
- Navigational Risk Assessment
- Air Emissions Analysis
- Underwater and In-Air Acoustic Modeling
- Marine Mammal Risk Assessment
- Sediment Transport Modeling
Geophysical and Geotechnical Surveys

- **Multibeam depth sounder** to determine water depths and general bottom topography.
- **Seafloor imaging (side scan sonar survey)** to identify natural and man-made acoustic targets;
- **Magnetic intensity measurements** for detecting ferrous objects;
- **Subbottom profiler** to map the near surface (chirp) and deeper (boomer) stratigraphy;
- **Vibracores** to collect sediment samples to ground-truth geophysical information and assess technical properties (e.g. thermal resistivity)
Offshore Wind is Good for Massachusetts

- **Economic** - Most cost-effective, large-scale source of new energy for Massachusetts

- **Reliable** - Delivers power during the middle of the day, when downstate needs it most

- **Uses Ports** – New Bedford as a hub of green energy construction

- **Creates Jobs** - hundreds of jobs in MA for this project and more for future projects
DEEPWATER WIND
Clean energy is just over the horizon.