Why offshore wind power?
The Potential
Offshore wind delivers energy when and where it’s needed most.
Regional Urgency

2 million Barrels of Oil in 15 days
Climate Changed

First Big U.S. Offshore Wind Farm Offers $1.4 Billion to Customers
• The industry currently supports 80,000 jobs in Europe
• It is projected to support between 20,000 and 40,000 full-time jobs in the U.S. by 2030
Offshore Wind in Europe

Offshore wind is a mature, established technology

Key Statistics

• 22 GW installed since 1991
• 110 projects in 12 countries
• UK, Germany, Denmark, Belgium, Netherlands

Source: Wind Europe
Current Context:
European Green New Deal

Key Objectives of the Green New Deal in Europe:
Net zero greenhouse gas emissions across Europe by 2050
Deploying 450 GW of offshore wind in European waters by 2050
US Offshore Wind: 2001-2018
Timeline

- **2001**: Cape Wind Proposed
- **2015**: First US WDA leases
- **2016**: Block Island Operational
- **2018**: First US OSW Contracted (Vineyard Wind – 800MW)

**TODAY**: Five Turbines, 30 MW capacity ~15,000 households
Massachusetts Wind Energy Area Development

Planning & Analysis and Leasing:
Six year public engagement process

Overview
• 2009: MA Intergovernmental Renewable Energy Task Force
• 2010: “Request for Interest”
• 2012: Call for Information, area ID, Environmental Assessment
• 2012-2014: Environmental Assessment Review
• 2015: Final Sale Notice, auction, lease issuance;

Source: BOEM
Massachusetts Wind Energy Area Development
Offshore Wind Power Market & State Policies
Development Process & Permitting
Massachusetts Wind Energy Area Development

Massachusetts Request for Interest (RFI) Area

Massachusetts Lease Areas

- Block Island Shelf NK 19-10
- Hydrographer Canyon NK 15-11
- Providence NK 19-07
- Martha's Vineyard
- Nantucket

Map ID: PR333-2014-1-003

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PERMITTING PROCESS
VW 1 (FEB 2020)

Federal
- ACOE
- EPA
- BOEM
- USCG
- NMFS
- FAA

COP
- NEPA Scoping
- DEIS
- SEIS
- FEIS

Record of Decision
- Facilities Design Report & Fabrication Installation Report

State
- MEPA
- ENF
- CZM / CRMC

Scoping
- MEPA Cert.
- DEIR
- DEIR Cert.
- SDEIR
- SDEIR Cert.

Final MEPA Cert.
- Cape Cod Commission & MV Commission

State Permits (including): Chapter 91 401 WQC Highway Railroad

Town Conservation Commissions
- Town Road Opening
Responsible Development
NWF’s Goal: **Responsible** Offshore Wind Development

Every megawatt of offshore wind power built for America must be **developed responsibly** in a manner that:

✔ protects our valuable marine and coastal resources

✔ maximizes job creation and other local economic benefits for the state
Key Principles for Environmentally Responsible Offshore Wind Development

Guided By Science & Comprehensive Input - All leasing & permitting decisions informed by:

- best available data
- effective expert & stakeholder engagement
- current ocean planning efforts
- ongoing, comprehensive monitoring (both potentially impacted wildlife populations + technology solutions to minimize impacts)

Mitigation Hierarchy Approach at All Stages of Development - Avoid, minimize, &/or offset impacts during:

SITING: Avoid locating projects in sensitive, critical wildlife habitat areas (i.e. near shore, shoals, boulder reefs, etc.)

CONSTRUCTION: Adjust timing/method of survey & construction activities to protect wildlife (i.e. migrating marine mammals)

OPERATIONS & MAINTENANCE: Employ proven wildlife impact reduction strategies (i.e. lighting, vessel speed restrictions)

DECOMMISSIONING: Ensure long-term planning for all project development sites
Ongoing Collaborations with State Governments

• Massachusetts: MassCEC  
  marine mammal surveys  
  Habitat Working Group

• New York: NYSERDA  
  Environmental Technical Working Group

• Connecticut  
  Commission on Environmental Standards

• New Jersey
VINEYARD WIND
OFFICE HOURS

Please join Vineyard Wind’s Manager of Policy and Development, Nate Mayo, for office hours!

Friday, March 23 and Friday, March 30
1:00 - 3:00 PM
Yarmouth Senior Center, 528 Forest Road

Ask questions or learn more about our efforts to build the nation’s first large scale renewable wind energy project 30 miles south of Cape Cod.

To make an appointment or set up a separate time to meet, please contact Nate Mayo, Policy and Development Manager, at 617-840-4045 or nmayo@vineyardwind.com.
Fall 2019 Agreement
Uniform layout
Agreements
• Agreement with Environmental Groups on Right Whale Protection (January 2019)
  • Achieved with Conservation Law Foundation, National Wildlife Federation, Natural Resources Defense Council
  • Sets a standard to avoid Right Whale impacts
  • Stipulates seasonal restrictions, activity restrictions, robust monitoring, and others

• Host Community Agreement (Oct 2018)
  • Partnership to support the project while protecting local interests
  • Town input and coordination on design and construction
  • Significant long-term benefits for the town

• Partnerships with research orgs, universities, and non-profits
Let’s make it happen!
Major Public Comment and Engagement Opportunities

Federal Review – NEPA (BOEM)
• “Notice of Intent” – Public Comment and Public meetings
• Draft Environmental Impact Assessment - Public Comment and public hearings
• Various agency-level comment periods

State Review
• Public comment periods on Environmental Impact Report
• Energy Facilities Siting Board (MA) comment period and hearings
• Ocean Plan Consistency Review - Public Meetings

Regional/Local Review
• Public comment and hearings at regional planning agencies, local conservation commissions etc.
Thank you!

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