Overview

- **Capacity:** 800 MW
- **Turbine Model:** 13 MW GE Haliade-X
- **Federal Permitting**
  - Due Diligence: Haliade-X
    - January 2021, results of review determined no changes needed to COP
  - FEIS released - March 12, 2021
  - Record of Decision
- **State Permitting:** Completed
- **Point of Interconnection:** Barnstable Substation
- **Power Purchase Agreements:** 20-year PPAs with Massachusetts utilities (approved)
PROJECT ENVELOPE

- Construction & Operation Plan (COP) includes a size range
- Compare Haliade-X to maximum size range in the COP

<table>
<thead>
<tr>
<th></th>
<th>A Rotor Diameter</th>
<th>B Total Blade Tip Height above MLLW</th>
<th>C Hub Height above MLLW</th>
<th>D Tip Clearance during Operation Above MLLW</th>
</tr>
</thead>
<tbody>
<tr>
<td>( A )</td>
<td>164 meters (538 feet)</td>
<td>191 meters (627 feet)</td>
<td>109 meters (358 feet)</td>
<td>27 meters (89 feet)</td>
</tr>
<tr>
<td>( B )</td>
<td>222 meters (729 feet)</td>
<td>255 meters (837 feet)</td>
<td>144 meters (473 feet)</td>
<td>32 meters (105 feet)</td>
</tr>
<tr>
<td>( C )</td>
<td>137.5 meters (451 feet)</td>
<td>255 meters (837 feet)</td>
<td>144 meters (473 feet)</td>
<td>32 meters (105 feet)</td>
</tr>
<tr>
<td>( D )</td>
<td>361 feet</td>
<td>247.5 meters (812 feet)</td>
<td>137.5 meters (451 feet)</td>
<td>27.5 meters (90 feet)</td>
</tr>
</tbody>
</table>

Tower diameter 26.5 feet
Scour protection diameter 138 feet
Monopile depth in sediment 90 – 118 feet
• 1 x 1 nautical mile
• 62 turbines
• Reduced footprint
• Locations on northern corners eliminated
Overview

- **Capacity**: 804 MW
- **Lease Area**: OCS-A 0501
- **Federal Permitting**: Construction & Operation Plan (COP) commenced in 2020
- **State Permitting (MA)**: Commenced in 2020
- **Point of Interconnection**: West Barnstable Substation (MA)
- **Power Purchase Agreements**: 20-year PPAs with Connecticut utilities (approved)
FISHERIES SURVEYS

Fisheries Surveys Completed - Data available at: https://www.vineyardwind.com/fisheries

- Two years of pre-construction surveys in both lease areas 2019, 2020; led by UMass Dartmouth’s School for Marines Science and Technology (SMAST)
  - Trawl surveys (4 times per year)
  - Drop camera surveys (2 times per year)
  - Lobster, plankton, black sea bass surveys (June – October) 501N only
- Highly Migratory Species study in partnership with New England Aquarium Anderson Cabot Center for Ocean Life completed

Fisheries Survey Plan Review – Ongoing – Public Virtual Meeting Coming Up this Spring

- 2 Fishermen reviewers for each survey
  - Fishermen who fish in the lease area
  - Participated in planning workshops SMAST hosted 2 years ago
- 3 Academic reviewers
  - Experts in fisheries science
  - Stock assessment, benthic habitat, trawl survey design

Fisheries Survey Plan for 2021 – Continuing for third year
AERIAL SURVEYS / REGIONAL SCIENCE / DATA SHARING

Aerial Digital Surveys

• Aerial digital surveys ongoing in 522; led by APEM and Biodiversity Research Institute
  • Additional survey over a nearshore avian “hotspot” to continue to improve species identification from aerial digital surveys
• Surveys conducted monthly – two surveys per month during migration periods (April/May) (August/September)

Regional Science

• Participating in Responsible Offshore Science Alliance

• Collaborating with NEAq, MassCEC, and other developers to continue aerial marine mammal and sea turtle surveys across the WEA

• Participating in State of the Science Working Groups

• Participating in ICES (International Council for the Exploration of the Seas) Working Group on Offshore Wind Development and Fisheries

Data Sharing

• BOEM Avian Distribution Modeling

• NMFS / NEAq Protected Species Observer (PSO) Project

• BOEM Hydrodynamic Modeling and Particle Tracking

• NYSERDA Ecosystems Dynamics Project
COMMUNICATION

OFFSHORE WIND MARINER UPDATE NO. 29
GEOTECHNICAL & ENVIRONMENTAL SURVEYS

The Survey Vessel DANIELLE MILLER will be performing geotechnical and environmental surveys in the southern half of Vineyard Wind Lease Area (OCS-A 9501), along a small corridor of the northern portion of Vineyard Wind Lease Area (OCS-A 0501), and along the Offshore Export Cable Corridor up to Muskeget Channel and into Nantucket Sound beginning on or about July 30, 2020.

DATE(S)
Estimated completion: Late-November

LOCATION(S)
All of the southern portion of Vineyard Wind Lease Area 0501 and following the Offshore Export Cable Corridor leading up through Nantucket Sound

Vessel: DANIELLE MILLER
LOA: 145 feet
Flag: US
Email: danielllemiller@millermarineservices.com
Phone: +1 516 945 7077
Sat phone: +1 505 295 2012
Onboard Fisheries Liaison: Clint Baker, 401-588-1068
Standing by on VHF Channels 13 & 16

For the latest information, please contact our Fisheries Liaisons
Crissa Bank, Cell: 508-525-0471 • Email: cbank@vineyardwind.com
Ceaia Howard, Cell: 508-386-9832 • Email: choward@vineyardwind.com

FREE COVID-19 Testing
Pier 3, New Bedford | April

The Southcoast Health Wellness Van is offering free COVID-19 testing on Pier 3 in New Bedford.

Essential workers in the fishing industry and all family members are welcome.

Dates Times:
April 1 8:30 am to 11:30 am
April 8 8:30 am to 11:30 am
April 15 8:30 am to 11:30 am

Generously sponsored by Vineyard Wind

www.vineyardwind.com/fisheries

MONTHLY PORT HOURS
FISHERIES LIASONS FROM EQUINOR, ØRSTED/EVERSOURCE, MAYFLOWER WIND AND VINEYARD WIND WILL BE AVAILABLE DURING MONTHLY PORT HOURS FOR COMMERCIAL AND RECREATIONAL FISHING INQUIRIES, COMMENTS AND FEEDBACK FOR THE R/MA WIND ENERGY AREAS

Sign up for EMAIL Updates OR TEXT ALERTS
www.vineyardwind.com/fisheries

Please remember to wear a mask and remain 6 feet apart when in line outside the Southcoast Health Wellness Van.

Southcoast Health
WEBSITE RESOURCES FOR FISHERMEN

www.vineyardwind.com/vesselrfi

vineyardwind.com/offshore-wind-mariner-updates

vineyardwind.com/fisheries-science