Mayflower Wind

Project Characteristics

- **Lease:** OCS-A 0521
- **Area:** 127,000 acres (520 km²)
- **Water Depth:** 64% < 180 ft (55m)
- 36% > 180 ft (55m)
- **Average wind speed at 135m:** 33 ft/s (10.1 m/s)
- **Distance to shore:** 53-65 miles (85-105 km)
- **Landfall:** Falmouth, MA
- **Connection point:** Bourne, MA
- **Distance to grid connection:** 78 miles (125 km)
- **Potential:** over 1,600 MW, depending on technology
Mayflower Wind has committed to invest $77 million in programs administered by MassCEC over 25 years that help make the Commonwealth a hub for offshore wind energy, including:

- $35 million - ports & infrastructure
- $10 million - innovative technologies
- $5 million - workforce development
- $5 million - applied research

Mayflower Wind looks forward to being a long-term member of the Southcoast, Upper Cape & Islands communities and active participant in supporting activities such as local school STEM and renewable energy education programs and skills/workforce training.

In 2020, Mayflower Wind contributed $100,000 towards MassCEC’s awarding of grants to nine Massachusetts organizations and institutions for workforce training and development programs.

Mayflower Wind has committed to provide $5 million over 10 years to the Cape Light Compact JPE towards initiatives that lower electric bills for low-income households.
Mayflower Wind Milestones

- SAP approved by BOEM in May 2020; 2020 G&G Survey Plan approved by BOEM
- Agreed to 1x1 nm grid layout with other MA/RI developers
- High-resolution geophysical surveys conducted May-November 2020
- Geotechnical and geoarchaeological surveys conducted July-September 2020
- Virtual geoarchaeological core testing in consultation with BOEM, BUAR, MHC and Tribes, completed Fall 2020
- 2021 surveys began in late April
  - R/V Westerly
  - GO Liberty
  - GO Pursuit
Site Characterization and Preliminary Data
Mayflower Wind is developing a federal offshore lease area, located over 30 miles south of Nantucket, that has the potential to generate over 1,600 megawatts (MW) of low-cost clean energy, or enough to power over half a million homes. We expect to deliver clean energy from the project by the mid-2020s.

We are guided by our core values:
- **Zero Harm:** We are committed to treating our people, community, and environment with care.
- **Investing in Communities:** We are committed to building responsible partnerships by supporting economic development and providing jobs.
- **Innovation and Industry Development:** We expect innovation will continue to drive the rapid decline in the cost of wind energy and we aim to be a leader in this industry.

Mayflower Wind deploys robust, science-driven decision-making to research, develop, and implement innovative solutions in successfully delivering the project. Ongoing geophysical and geotechnical surveys provide critical data about the seafloor and subsea for evaluation in the project design and permitting process.

### 2021 Geophysical & Geotechnical Surveys

**April – August 2021**

Multiple vessels will conduct geophysical & geotechnical (G&G) surveys both within Mayflower Wind’s offshore lease area and along potential export cable routes. The 2021 surveys continue data acquisition work started in 2019.

- All survey activities are performed in accordance with federal and state regulations and health and safety policies and procedures.
- Notifications are provided to the US Coast Guard and Department of the Navy.
- Vessels have on board Protected Species Observers to identify and appropriately manage any issues involving protected marine wildlife, especially marine mammals and sea turtles.
- Lease area vessels have on board Fisheries Representatives to identify and appropriately manage any issues involving fisheries matters.
- Active coordination is underway with the Massachusetts Lobstermen’s Association to minimize impacts to fisheries in the survey area.

Geophysical Surveys assess the seafloor and near-surface sub-bottom using a variety of non-intrusive acoustic and magnetic technologies that use sound to map the seafloor, sub-seafloor, and magnetic anomalies. This information helps Mayflower Wind understand the seafloor topography and any surface obstructions (boulders, or manmade materials), differences in the material and texture of the seabed, and the location of potential historical or archaeological resources.

Geotechnical Surveys analyze soil conditions by extracting small diameter seismic core samples. This information helps inform the foundation design for turbine locations and other project facilities. Details on geotechnical survey vessels will be provided once contracts have been awarded.

### Geophysical Survey Vessels

<table>
<thead>
<tr>
<th>Vessel Area</th>
<th>Export Cable Corridor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vessel: Go Pursuit</td>
<td>Mobilization: April 17, Dive operations, Water Depth &gt;120 m, Duration: 40 to 90 days</td>
</tr>
<tr>
<td>Vessel: Go Liberty</td>
<td>Mobilization: April 19, Dive operations, Water Depth &gt;120 m, Duration: 130 days</td>
</tr>
<tr>
<td>Vessel: Vestibule</td>
<td>Mobilization: April 10, Dive operations, will return to port after 110 days, Estimated Duration: 110 days</td>
</tr>
</tbody>
</table>

**Lease Area**

- Map the seafloor.
- Identify potential for marine life.

**Export Cable Corridor**

- Assess the seafloor and sub-bottom.
- Identify potential for marine life.

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**Sign up for updates**
Monitoring

Fisheries Survey Planning & Research

Fisheries – Project & Regional

- Highly Migratory Species research (acoustic telemetry & tagging with NEAq)
- Analysis of recreational fishing effort (NEAq)
- Lobster larval, ventless trap, and trawl (camera) surveys with SMAST
- Responsible Offshore Science Alliance (ROSA Founding member)

Environmental – Project & Regional

- Coordination of digital aerial surveys – birds, marine life
- Right whale aerial surveys (joint developers with MassCEC & NEAq)
- Regional Wind Science Entity
- Metocean data sharing (with NOAA)
We want to hear from fishermen, please contact me

Joel Southall
Fisheries Liaison Officer

joel.southall@mayflowerwind.com
617-817-4682
mayflowerwind.com
Mayflower Wind is developing a federal offshore lease area, located over 30 miles south of Martha’s Vineyard and 20 miles south of Nantucket, that has the potential to generate well over 1,600 megawatts (MW) of low-cost clean energy, or enough to power over half a million homes. We expect to deliver clean energy from the project by the mid-2020s.

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**WHO:**
50/50 joint venture between Shell and Ocean Winds

**WHAT:**
Potential for over 1,600 MW of offshore wind energy, enough to power half a million homes

**WHEN:**
Expected to deliver low-cost clean energy by the mid-2020s

**WHERE:**
Federal lease area is located 30 miles south of Martha’s Vineyard and 20 miles south of Nantucket

**WHY:**
Mayflower Wind will be among the single largest contributors towards the Commonwealth’s net-zero carbon emissions goals

**HOW:**
Backed by two world-leading energy companies with deep experience in managing the complexities of offshore energy development projects
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### Geophysical Survey Vessels

<table>
<thead>
<tr>
<th>Vessel: GO PURSUIT</th>
<th>Vessel: GO LIBERTY</th>
<th>Vessel: WESTERLY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mobilization:</strong> April 17</td>
<td><strong>Mobilization:</strong> April 19</td>
<td><strong>Mobilization:</strong> April 12</td>
</tr>
<tr>
<td>24-hr operations</td>
<td>Daylight operations</td>
<td>Daylight operations, will return to port nightly</td>
</tr>
<tr>
<td>Water Depths &gt; ~12m</td>
<td>Water Depths &gt; ~7m</td>
<td>Water Depths &gt; ~2m</td>
</tr>
<tr>
<td>Estimate Duration ~60 to 90 days</td>
<td>Estimate Duration ~125 days</td>
<td>Estimated Duration ~175 days</td>
</tr>
<tr>
<td>LOA: 150’</td>
<td>LOA: 170’</td>
<td>LOA: 50’</td>
</tr>
<tr>
<td>Call Sign: WDH 6498</td>
<td>Call Sign: WDK6648</td>
<td>Call Sign: WDF7918</td>
</tr>
<tr>
<td>Phone: +1 337 205 7400</td>
<td>Phone: +1 337 735 1828</td>
<td>Phone: 805 850 9593</td>
</tr>
<tr>
<td>Monitoring VHF Channel 16</td>
<td>Monitoring VHF Channel 16</td>
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