

# Supply Chain, Workforce, Ports and Marine Transportation Working Group

## Offshore Wind Roadmap: Charting a Course for Maine

### DETAILED DESCRIPTION AND APPROACH

#### Overall Scope

The Governor's Energy Office (GEO) believes that offshore wind will play a key role in meeting Maine's renewable energy targets and addressing climate change. Maine's position near New England's population centers with high energy demands, an enterprising citizenry with maritime experience, an innovative research environment with more than a decade of experience with floating offshore wind, and a high quality wind resource make our state an ideal place to responsibly develop an offshore wind industry. Maine needs to identify how to support an offshore wind economy in a way that embraces the opportunity, while ensuring the sustainability of our Maine coastal heritage, existing ocean users, and environment. With this, the state is developing the *Offshore Wind Roadmap: Charting a Course for Maine*, funded by a grant from the U.S. Economic Development Administration.

This working group will examine the economic, workforce and infrastructure opportunities and needs to support the offshore wind economy for Maine. This group may be divided into task groups to focus on specific topics, as follows: a) supply chain; b) workforce development; and c) ports and marine transportation. The work of these task groups would be coordinated through the Working Group.

#### Goals of the Working Group

- Produce actionable, prioritized strategies to support Maine's offshore wind industry that builds upon existing strengths, and leverages Maine's competitive advantages in supply chain, workforce development, ports, and marine transportation; and
- Provide recommendations towards implementation of those strategies, including potential policy changes, marketing, education, training, investment/financial assurance guidance for individual companies, research and innovation, investments needed and funding options, and partnerships, in the immediate, near term (through 2025) and longer-term (2026-2040).

#### Deliverables to Advisory Committee

1. Assessment of Maine's assets to support an offshore wind industry with an action plan and tools to strengthen them. The assessment includes existing supply chain, workforce, and infrastructure such as ports. The action plan should specify how Maine can become a "regional center for supply chain operations". The action plan should also detail how Maine can improve workforce development by preparing existing talent and attracting new talent, with the long-term goal of job creation and increased wages throughout the state.
2. Guidance on socioeconomic data to be included in the Roadmap's economic analysis in order to adequately and accurately consider potential costs and benefits of offshore



wind to Maine.

3. Standards or requirements that Maine should promote in the way developers work with the State.
4. A list of prioritized data and information to collect to help inform future supply chain, workforce development, ports, and marine transportation needs for Maine's OSW economy.
5. A summary of any missing data or technical gaps.
6. Synthesized draft report and presentation to Advisory Committee

## Work Plan

This section outlines the workplan of the working group, divided by three logical task groups (Supply Chain, Workforce Development, and Ports and Marine Transportation) with a general outline of the work schedule.

### Full Working Group

- a. Mutual Learning: Initial working group meetings will focus on building a shared understanding of priority topics selected by working group members. These can be through short webinars.
- b. Engage: Throughout the process, we seek to engage stakeholders and experts to elicit ideas, hear their feedback, and share final recommendations. Meetings will be noticed on the GEO website and are open to the public. A list of suggested outreach opportunities will be developed by the working group. It is anticipated that most outreach will take place at already scheduled meetings of organizations and groups.
- c. Partner: While recognizing that each state may want to create space for state-specific issues, the OSW economy encompass shared public resources and will transcend state and national borders. The working group will proactively engage with NH, MA, the Canadian Maritime Provinces, and federal agencies on trans-boundary issues, as appropriate.

### 1. Supply Chain

- a. Review and Catalog References: At the request and guidance of the working group, staff and/or contractor will collect, review, and catalog existing reports, studies, and plans to assist the working group with its work. We will draw on existing data, strategies and lessons learned from OSW supply chain efforts in other states, the U.S. (e.g., "30GW by 2035" project funded by NOWRDC), and countries (e.g., UK) to identify approaches that will be helpful to Maine.
- b. Catalog our existing Maine supply chain for OSW: With guidance from the working group, a contractor will review the 3 existing databases of Maine OSW supply chain at Maine Composites Alliance, Maine International Trade Center, and New England Aqua Ventus (these will be compiled in the national Business Network for Offshore



- Wind Supply Chain Registry) and identify supply chain strengths for Maine.
- c. Assess existing Maine OSW supply chain vs. opportunities: With guidance from the working group, a contractor and staff will assess Maine’s OSW supply chain vs. opportunities (Gulf of Maine, regional, national, global) in the immediate, near term (through 2025), and the long term (2026-2040), highlighting the gaps and strongest opportunities for Maine, as well as detailing how Maine can become a “regional center for supply chain operations”.
  - d. Develop Action Plan to Improve– With guidance and approval from the working group, a contractor will develop an action plan to strengthen Maine’s opportunities for the OSW supply chain. The action plan will include specific considerations for increasing opportunities for MWBSE. The action plan will include prioritized strategies for immediate, near term (through 2025) and long term (2026-2040). Prioritization criteria TBD by the WG. The action plan will include the following:
    - i. Marketing
    - ii. Trainings/Certifications
    - iii. Investments/Financial Assurance (for individual companies)
    - iv. Leadership, Programs, and Partnership Opportunities
    - v. Policies, Laws, Regulations (e.g., standards for local content requirements)
    - vi. Investments Needed and Funding Opportunities – state and other
    - vii. Data, Information, Research, and R&D Innovation Needs

## 2. Workforce Development

- a. Review and Catalog References: At the request and guidance of the working group, staff and/or contractor will collect, review, and catalog existing reports, studies, and plans to assist the working group with its work. We will draw on existing data, strategies and lessons learned from OSW workforce in other states, nationally, and in other countries to identify approaches that will be helpful to Maine.
- b. Catalog existing Maine workforce efforts relevant to OSW: With guidance from the working group, a contractor will review existing Maine clean energy workforce assessments and initiatives to identify leveraging opportunities for OSW workforce development for Maine.
- c. Assess existing Maine OSW workforce vs. opportunities: With guidance from the working group, a contractor and staff will assess Maine’s OSW workforce vs. opportunities (Gulf of Maine, regional, national, global) in the immediate, near term (through 2025), and the long term (2026-2040), highlighting the strongest opportunities for Maine. The assessment will include gaps and how Maine can improve workforce development by preparing existing talent and attracting new talent, with the long-term goal of job creation and increased wages throughout the state.
- d. Develop Action Plan to Improve- Identify and prioritize recommendations in the immediate, near term (through 2025) and long term (2026-2040) to improve Maine’s workforce development for OSW based on the steps above. Prioritization criteria TBD by the WG, but should include equity considerations (such as underserved and potentially impacted populations), unions, and clear paths to advancement. The



WG will identify prioritized strategies to include in an action plan that addresses the following for workforce development:

- i. Education/Trainings/Certifications/Paid Apprenticeships – develop a training action plan
- ii. Leadership, Programs, and Partnership Opportunities
- iii. Policies, Laws, Regulations (e.g., local content requirements)
- iv. Investments Needed and Funding Opportunities
- v. Data, Information, Research, and R&D Innovation Needs – including long-term tracking of jobs and increased wages, as required by EDA grant

### 3. Ports and Marine Transportation

- a. Review and Catalog References: At the request and guidance of the working group, staff and/or contractor will collect, review, and catalog existing reports, studies, and plans to assist the working group with its work. We will draw on existing data, strategies and lessons learned from OSW ports, vessel repair and maintenance, and shipbuilding in other states, nationally, and in other countries to identify approaches that will be helpful to Maine.
- b. Catalog existing Maine ports, Maine registered vessels adaptable to the offshore wind sector, vessel repair and maintenance, and shipbuilding for OSW. At the request and with guidance from the working group, a contractor will catalog existing Maine ports and marine transportation infrastructure to support the OSW economy.
  - i. Using the existing Maine DOT ports assessments, identify Maine ports with capabilities to support the OSW industry. Additionally, identify facilities that can support aviation operations related to OSW.
  - ii. Identify Maine-registered vessels ready to service OSW
  - iii. Identify Maine entities that support vessel repair and maintenance applicable to OSW
  - iv. Identify Maine shipbuilding/boatbuilding companies with capabilities to support the OSW industry.
- c. Assess Maine ports, vessels, vessel repair and maintenance, and shipbuilding vs. opportunities
  - i. At the request and with guidance from the working group, a contractor will assess existing Maine ports vs. the needs for the OSW industry (Gulf of Maine, regional, U.S. Atlantic Coast) in the immediate, near term (through 2025) and the long-term (2026-2040), highlighting gaps and opportunities for port enhancements. The contractor will also assess ports or infrastructure that supports aviation operations for OSW. The contractor will conduct a first-tier feasibility assessment for financial implications to the state for ports with the greatest potential to meet OSW industry needs in the near term.
  - ii. At the request and with guidance from the working group, a contractor will assess existing Maine registered vessels vs. needs for the OSW industry (Gulf of



Maine, regional, U.S. Atlantic Coast) in the immediate, near term (through 2025) and the long-term (2026-2040), highlighting gaps and opportunities for existing vessels.

- iii. At the request and with guidance from the working group, a contractor will assess existing Maine shipbuilders/boatbuilders vs. the needs for the OSW industry (Gulf of Maine, regional, Atlantic Coast, National) in the immediate, near term (through 2025) and the long-term (2026-2040), highlighting gaps and opportunities for new ship- and boat-building.
  - iv. At the request and guidance of the working group, a contractor will assess existing vessel repair and maintenance capabilities in Maine to support the OSW industry (Gulf of Maine, regional, Atlantic Coast, National) in the immediate, near term (through 2025) and the long-term (2026-2040), highlighting gaps and opportunities for vessel repair and maintenance.
- d. Develop Action Plan to Improve – identify and prioritize recommendations in the immediate, near term (through 2025) and long term (2026-2040) to improve Maine’s ports, vessels, vessel repair and maintenance, and boat-/ship-building for OSW. Prioritization criteria TBD by the WG.
- i. Leadership, Programs, Partnership Opportunities
  - ii. Policies, Laws, Regulations (local content requirements)
  - iii. Investments needed and funding opportunities
  - iv. Data, Information, Research, and R&D/Innovation Needs

### **For the purposes of this working group:**

“Workforce development” refers to all secondary education, post-secondary education, apprenticeships and training to prepare individuals for participation in the OSW industry.

### **Expected Meeting Schedule**

*(TBD based on initial Working Group discussion and identified needs; meetings may be in-person and/or virtual. The schedule below shows Advisory Committee meetings as well as Working Group meetings)*

#### ***\*Advisory Committee meetings are starred***

#### **\*July 14, 2021 – Initial Advisory Committee (AC) Meeting #1**

- Foundational meeting and orientation to Maine’s Offshore Wind Roadmap

#### **Mid-late July/August 2021 – Working Group Meeting #1**

- Overview of Maine’s Offshore Wind Roadmap
- Outline role and deliverables of Working Group
- Refine and prioritize Working Group deliverables and work plan
- Establish list of topics, speakers, key questions for mutual learning



- Review and provide feedback on information the Working Group needs to do its work

#### August 2021 – Brief 1-hour monthly update meeting

- Opportunities for mutual learning (webinars)
- Smaller group discussions about floating OSW and Maine’s efforts (as requested)

#### September 2021 – Working Group Meeting #2 & Working Group Meeting #3

- Begin addressing priority deliverables and approach to developing recommendations (speakers, information, key questions, etc.)
- Refine and guide specific targeted outreach and engagement to key constituencies.

#### \*October 6, 2021 – Advisory Committee Meeting #2

- Review and feedback on Working Group progress to date – guidance to co-chairs

#### October 2021 - Working Group Meeting #4

- Explore ideas for immediate and near-term strategies
- Updates and discussion on research and/or technical assistance

#### November 2021 – Working Group Meeting #5 and Working Group #6

- Prepare draft strategies
- Initial feedback from targeted outreach efforts

#### December 2021 – Working Group meeting #7

- Initial recommendations on immediate actions state should take on OSW (legislation, policy items, or other immediate needs)

#### \*December 14, 2021 – Advisory Committee Meeting #3

- Presentations by Working Groups of draft strategies with outline of overall direction and the types of recommendations being considered
- Review proactive public and stakeholder engagement plan

#### January and February 2022 – Brief 1-hour monthly update meetings

- Updates on public and stakeholder engagement efforts

#### March 2022 – Working Group Meeting #8

- Review feedback from targeted and broad public outreach
- Develop final draft recommendations

#### \*March 30, 2022 – Advisory Committee Meeting #4

- Review public and stakeholder engagement

#### April and May 2022 – Working Group Meeting #9 and #10

- Continue development of final draft recommendations

#### \*June 7, 2022 – Advisory Committee Meeting #5



- Final Working Group recommendations for Roadmap presented to Advisory Committee

**\*September 21, 2022 – Advisory Committee Meeting #6**

- Refining draft Roadmap based on public and stakeholder feedback

**\*November 16, 2022 – Advisory Committee Meeting #7**

- Final refinements of Roadmap document

**How the Advisory Committee and Working Groups Will Work Together**

The Advisory Committee is a high-level strategic body that will provide guidance on the Roadmap development, including orientation to the four Working Groups.

The Working Groups will use the substantive expertise of its members, together with technical consultant support, to develop the core content of the Roadmap.

Advisory Committee	Working Groups
<b>Initial Months</b>	
Review and refine: <ul style="list-style-type: none"> <li>• Overall Roadmap development process</li> <li>• Initial outline of Roadmap content and Working Group deliverables to create that content</li> <li>• Overview of planned consultant and technical support</li> <li>• Overall public and stakeholder engagement strategy</li> <li>• Equity framework for the Working Groups to use</li> </ul>	<ul style="list-style-type: none"> <li>• Confirm specific deliverables and work plan</li> <li>• Request additional background information needed</li> <li>• Provide input as needed on consultant work</li> <li>• Begin workplan steps to develop draft strategies</li> <li>• Refine and guide specific targeted stakeholder engagement and outreach</li> </ul>
<b>Middle Months</b>	
<ul style="list-style-type: none"> <li>• Receive updates from Working Groups</li> <li>• Provide guidance and problem-solve as needed</li> </ul>	<ul style="list-style-type: none"> <li>• Co-chairs brief the Advisory Committee and bring questions</li> <li>• Prepare draft strategies</li> <li>• Integrate stakeholder feedback</li> </ul>
<b>Final Months</b>	
<ul style="list-style-type: none"> <li>• Assist GEO to review and consolidate Working Group strategies into a draft Roadmap document</li> <li>• Review public input and assist GEO to finalize Roadmap</li> </ul>	<ul style="list-style-type: none"> <li>• Offer a revised package of final draft strategies to the Advisory Committee</li> </ul>



## **Role of the Co-Chairs – Advisory Committee and Working Groups**

### *Advisory Committee co-chairs*

- Provide a leadership voice for the Roadmap effort
- Promote clear objectives and principles
- Work with staff and facilitators to prepare meetings and key documents
- Oversee follow up with AC members if they miss meetings
- Work with members and other stakeholders to address challenges that might arise

### *Working Group Co-Chairs*

- Provide a leadership voice for the Working Group, promoting clear objectives and principles
- Work with staff and facilitators to prepare meetings and key documents, as well as approve all meeting summaries
- Oversee follow up with WG members if they miss meetings
- Brief the Advisory Committee (of which they are members) periodically on Working Group progress and challenges. Attend Advisory Committee meetings.
- Work with WG members and other stakeholders to address challenges that might arise

## **Governance and Decision-Making by the Advisory Committee and Working Groups**

The Advisory Committee and Working Groups are advisory bodies set up to assist GEO in the development of a robust Offshore Wind Roadmap for Maine. As such, they are not decision-making entities for the Roadmap itself.

The committee and groups will strive to reach consensus in their recommendations to GEO. Consensus is defined by broad agreement among members: all or nearly all members can live with the proposed recommendation. Consensus is also defined by the process as well as the outcome of group deliberation. Thus, the groups will seek to articulate and explore members' interests and concerns, creatively develop ideas and options, seek to meet the needs and concerns of members to the greatest extent possible, and problem-solve in the face of disagreement. Consensus on the final slate of recommendations does not suggest all members will be equally satisfied with the outcomes nor prefer each and every recommendation. Rather, a consensus indicates that the slate of recommendations in total advances the public interest and well-being of the citizens of Maine to the greatest extent it can.

If the groups cannot reach consensus on specific issues, despite their best efforts, they will note the different viewpoints on these issues in their package of recommendations to GEO.

