



MASSACHUSETTS
CLEAN ENERGY
CENTER®

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OFFSHORE WIND WORKS – RESPONSIBLE DEVELOPMENT OF A CLEAN ENERGY WORKFORCE

EESI BRIEFING: SCALING UP INNOVATION TO DRIVE DOWN EMISSIONS

Presented By

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OUR MISSION

Grow the economy and help meet the state's clean energy and climate goals.



Offshore Wind Workforce Opportunities



Planning and development

- Activities that precede construction, including site characterization, research, engineering, and permitting

Construction and installation

- Pre-assembly, installation, and commissioning, with a large roles for skilled trades, organized labor, engineers, project managers, and individuals with maritime and water transportation expertise

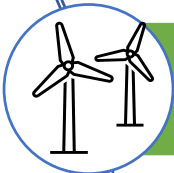
Operations and maintenance

- Regular inspection of turbines, foundations, cables, and substations, and process of making necessary repairs or replacements

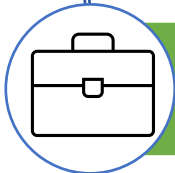
OSW Workforce Development Strategy



Conduct targeted **research and analysis** to inform workforce development initiatives



Engage directly with OSW industry to ensure programs and efforts align with their needs



Invest in and leverage resources for essential, high-need programs to meet needs and fill gaps



Proactively **support** programs and initiatives that build an OSW workforce that is diverse, equitable, inclusive, and just



Convene, support, and facilitate practitioners and stakeholders to share information, ideas, challenges, and best practices

Research and Analysis

2018 Massachusetts Offshore Wind Workforce Assessment

Construction and Installation Jobs

- 2,200-3,000 direct job-years
- 6,800-9,800 total job-years

Operations and Maintenance Jobs

- 140-250 direct annual job-years
- 960-1,700 total annual job-years

Economic Impact

- \$600-800M in direct economic benefit
- \$1.4-2.1B in total economic benefit

Priority Needs

- Skills and safety training programs
- Partnerships w/industry, schools, trades

2021 Offshore Wind Workforce Training & Development in Massachusetts Report

- Deeper examination of capabilities and opportunities, building on 2018 Assessment.
- Quantifies offshore wind occupational demands on an annual basis
- Maps local labor supply for these occupations to further identify more specific areas of strength and potential gaps in local labor supply.
- Identifies and catalogs 119 distinct occupations across phases of offshore wind development

Offshore Wind Works



OSWW Community of Practice Projects:

- Introductory offshore wind courses and programs;
- Health and safety training programs;
- Trades programs;
- Technical training programs;
- Undergraduate and Graduate programs;
- Diversity, Equity, Inclusion and Justice

Offshore Wind Works Spotlight: Browning the Greenspace and Xodus Group



Cross-sector leaders striving to advance **Diversity, Equity & Inclusion** in clean energy and beyond.

- Targeted community engagement campaign that will deliver an overview of the offshore wind industry directed towards high schools and community colleges in underserved communities;
- Paid experiential learning opportunities in the offshore wind industry for BIPOC, unemployed, and low-income individuals



Offshore Wind Works Spotlight: Massachusetts Maritime Academy



- The first facility in the U.S. to offer all five modules of Global Wind Organisation (GWO) Basic Safety Training for offshore wind
- Plans to develop and offer a 40-hour Basic Seamanship course for the Pile Drivers and Divers Local Union 56, and expand upon existing GWO-certified course offerings.

Offshore Wind Works Spotlight: ACE MV



- Adult Continuing Education Martha's Vineyard (ACE MV) offers a Wind Power Technician Certificate program specifically for local island workers who will help build and operate Vineyard Wind's 800MW project.
- Outreach campaign to increase enrollment of women into the industry.

Offshore Wind Works – Investments to Date

Over \$7.8M invested in grants to support 20 organizations and institutions since 2017



Thank you



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