ATTACHMENT 3: DESCRIPTION OF EXISTING OSWW PROJECTS

The following provides brief descriptions of existing and planned offshore wind workforce training and educational programs supported by MassCEC grants to date ("Existing Programs"). For more information on any of these projects, please contact offshorewind@masscec.com.

Martha's Vineyard Center for Education & Training (MV CET): MV CET's mission is to provide Vineyard Residents and workforce with experiences that enable them to thrive through skill building, professional development, credentialing, and life-long learning. MV CET has been awarded three grants from MassCEC**:**

- **2019:** To partner with Bristol Community College to provide Martha's Vineyard residents an on-island Offshore Wind Technician Certificate program. Completion of the Certificate program will give participants the skills and credentials necessary for jobs in operations and maintenance of offshore wind farms located south of Martha's Vineyard and beyond.
- **2020**: To expand the Offshore Wind Technician Certificate program to encourage high school dual enrollment in the program and to explore options for incorporating marine science and technology programming into Martha's Vineyard Regional High School's Career and Technical Education Program.
- **2021**: To launch a 24-month diversity outreach project dedicated to increasing the numbers of women and girls in offshore wind training and education. The project includes a community-wide, multi-level promotion campaign with financial support for Wind Turbine Technician Certificate, expanded high school STEM programming, and listening sessions.

A.I.S., Inc. (AIS): AIS provides fully trained protected species observers and certified inspectors for harbor and river dredging operations. MassCEC has awarded AIS one grant**:**

- **2020**: To expand their existing Protected Species Observers training program to include an on-the-water training component and to develop a new training program that improves offshore wind Operations and Maintenance professionals' understanding of regional protected species.

Franklin Cummings Tech**:** (FC Tech) is an urban college serving the Boston region with a commitment to student success and career readiness. FC Tech has received three MassCEC grants:

- **2021**: To partner with UMass Lowell and examine if an increased level of financial and academic support for women, people of color, and LGBTQIA+ communities will increase diversity in associate and bachelor's degree training programs for jobs in the Offshore Wind Workforce. Training programs for both technician and engineering level positions will be provided.
- **2022**: To partner with VinciVR to develop VR simulations for offshore wind construction and installation jobs as well as create refined simulations for direct drive turbines to be used in engineering classes. BFCIT and VinciVR will also purchase VR headsets and laptops so they can offer Renewable Energy Bootcamps for students in Gateway Cities or EJ populations.
- **2023:** To expand their Renewable Energy Bootcamp program with an additional eight bootcamps. The Bootcamp programs offers an introduction to offshore wind and renewable energy to underrepresented high school students at no cost.

Boys and Girls Club of Greater New Bedford (BGCGNB) is a nonprofit dedicated to providing a safe and positive environment to the youth, aiding them in reaching their full potential.

- **2024:** GREAT FUTURES: The Boys and Girls Club will offer a two-year workforce training program for low-income New Bedford young adults, focused on offshore wind careers with hands-on experience in turbine construction, CAD, 3D modeling, programming, and welding

Building Pathways, INC. (BPI)**:** BPI provides a gateway for low-income area residents in underserved communities to access family-sustaining careers in the construction industry through apprenticeship preparedness training programs. BPI was awarded one MassCEC grant:

- **2021:** To provide four 200+ hour Pre-Apprentice General Construction training programs to women, BIPOC, transitioning veterans, disabled, disconnected or at-risk youth, and LGBTQIA+ community member participants for opportunities in the building trades industry with a focus on opportunities in the offshore wind industry.

Building Pathways South: Building Pathways South provides a pre-apprenticeship program with a mission of helping low-income individuals gain entrance into registered apprenticeship programs leading to careers in the building trades.

- **2025:** To introduce an after-school support program to help youth prepare academically, socially, and professionally to enter the Union building trades upon graduation from high school.

Bristol Community College (BCC): Bristol's National Offshore Wind Institute (NOWI) offers basic and advanced safety and technical training programs to prepare workers for jobs in construction, deployment, operations, and maintenance of offshore wind farms. Bristol was awarded eight grants from MassCEC:

- **2019**: To establish basic safety training (BST) and basic technical training (BTT) to Global Wind Organization (GWO) standards on campus. These trainings are part of a larger initiative at BCC to develop NOWI, which will provide a variety of trainings, certifications, and educational offerings, including a certificate program and an associate's degree relating to offshore wind.
- **2020**: To expand essential training and health certification programs at NOWI. Additionally, to conduct a feasibility study to understand the need and interest for further safety and technical training programs. Finally, to develop a Basics of Offshore Wind program.
- **2021**: To create a communication campaign and neighborhood outreach strategy in partnership with Old Bedford Village. The project will be supported by an asynchronous orientation to offshore wind course focused on entry into the sector. The project will focus on residents of New Bedford, BIPOC, women, veterans, under- and unemployed, and workers seeking to transition into offshore wind from other industries.
- **2022:** To construct the National Offshore Wind Institute (NOWI), the first purpose-built offshore wind training facility in the nation. The NOWI will offer industry training programs, innovation and entrepreneurship programs, educational and virtual reality simulation all designed to train the local and regional workforce for occupations in the offshore wind industry.
- **2023:** To expand upon the Wind Works for You outreach and communication campaign. The project will bring the Offshore Wind Career Match tool to youth and young adults in New Bedford to help inform them of existing opportunities.
- **2024:** NOWI Training Portfolio Expansion. Bristol will expand the training offerings at the recently completed NOWI facility to include: Standards of Training, Certification, and

Watchkeeping for Seafarers (STCW), GWO Control of Hazardous Energies, and GWO Crane and Hoist Training.

- **2024:** NOWI Training Workforce Infrastructure Expansion. Bristol will procure and install the equipment and materials required to run Helicopter Underwater Egress Training ("HUET") training at the NOWI. NOWI will procure the necessary equipment and materials required to offer STCW, GWO Control of Hazardous Energies, and GWO Crane and Hoist Training in addition to their current catalogue of training opportunities.
- **2025:** To expand their Wind Works for You outreach and education campaign with additional services such as curriculum development and delivery, technical training, career navigation tools in Spanish, and enhanced outreach into targeted communities. They will also provide Train-the-Trainer opportunities for all trainers at the National Offshore Wind Institute by April 2026.

Browning the Green Space (BGS): BGS is a non-profit focused on increasing the participation and leadership of Black and Brown people and of women in the clean energy space. BGS has received one grant by MassCEC:

- **2022:** To partner with Xodus Group to establish a post-secondary degree training program focused on placing individuals from priority groups in a two-year, paid program working on real-life offshore wind energy projects.

Cape Cod Community College (CCCC): CCCC is a two-year community college located in West Barnstable, Massachusetts. MassCEC has awarded CCCC one grant:

- **2019**: To develop and deliver a suite of courses introducing students and workers to careers in offshore wind. These offerings include a non-credit *Offshore Wind 101* course and *Power of Wind* workshops for middle school students that raise awareness and interest in renewable energy technology and careers at an early stage. The offerings also include a three-course Sustainable Energy Certificate Program, which requires the courses *Introduction to Solar Energy* and *Renewable Energy, Climate, and Careers*.

Fishing Partnership Support Services (FPSS)**:** FPSS is a non-profit support service organization dedicated to improving the health, safety and economic security of commercial fishermen and their families. MassCEC awarded FPSS one workforce grant:

- **2020**: To work with the Commercial Fisheries Center of Rhode Island and the University of Rhode Island Fisheries Center to develop industry-standardized professional requirements for the safety and inspection of vessels for use in the offshore wind industry, which will allow interested fishermen to upskill and retrain for important offshore wind job opportunities that can augment their fishing incomes.

Gloucester Fishermen's Wives Development Program (GFWDP): GFWDP is a non-profit organization with a goal to promote a healthy environment and a just economy that allows local and family-owned businesses to thrive in a changing world. GFWDP has received one MassCEC grant:

- **2020**: To work with the Massachusetts Fishermen's Partnership and the Northeast Maritime Institute to recruit and pre-qualify commercial fishermen for enrollment in dedicated training and certification programs at the Northeast Maritime Institute.

International Brotherhood of Electrical Workers (IBEW) Local Union #223: IBEW aims to bring fair wages, safety on the job, and trained workers to the electrical industry. IBEW was awarded one MassCEC grant:

- **2020**: To establish a high voltage and fiber optic training program for skilled electricians at the IBEW's training facility in Taunton, in partnership with JDR Cables, a cable supplier for the Vineyard Wind 1 project.
- **2025**: To send members and apprentices to MMA for GWO Basic Safety Training and to Survival Systems in CT for Helicopter Underwater Escape Training. They will certify or re-certify 65 members in GWO, and 18 in HUET. They will also hold information sessions for members to learn more about the OSW industry, training expectations, and requirements for attending classes.

International Association of Bridge, Structural, Ornamental, and Reinforcing Iron Workers, Local 7: Local 7 Iron Workers is a Massachusetts labor union located in Boston, MA. Local 7 Iron Workers have received two grants from MassCEC:

- **2022:** To support their members and apprentices by paying for them to acquire GWO Basic Safety Training certification and establishing a tool training program for members to obtain their Hytorc tool certification.
- **2024:** Ironworkers Offshore Wind Recruitment and Training Program. The Ironworkers Local 7, in partnership with Local 37, will send members to Mass Maritime Academy for GWO BST certification and recertification, SPRAT Training, and HUET training in Connecticut.

IWNL Energy is globally recognized for delivering advanced training solutions and consulting services to developers, educational institutions, workforce development organizations, etc, with emphasis on renewable energy.

- **2024:** Offshore Wind Energy Career Navigator Version 1.1. IWNL will expand and enhance their career awareness and educational application through the creation of video presentations on high-growth occupations, the development of a comprehensive career access portal, and the integration of additional career profiles.

La Colaborativa: La Colaborativa provides tailored supports that address individual needs and systemic barriers for vulnerable community members in the greater Boston area. La Colaborativa has marshalled a variety of economic mobility, workforce training, and vocational education programs catering to their target population over the last decade.

- **2025:** To connect 12 young adults with 32 weeks of career exploration, work readiness, soft skill development, vocational training, and post-secondary placement services in offshore wind jobs.

Massachusetts Maritime Academy (MMA): MMA is a public college located in Buzzards Bay, MA and offers courses in maritime-related fields. MMA was awarded six grants by MassCEC:

- **2017/2018:** Two tranches of funding for fabrication and installation of a crew transfer training structure to simulate the fixed wind turbine base for crew transfer training. The structure allows workers to train in the safe transfer from floating crew transfer vessel.
- **2019**: To support the establishment Global Wind Organisation (GWO) Basic Safety Training (BST) for offshore wind, and the development of an *Introduction to Offshore Wind* course for Academy cadets. MMA began offering GWO BST in 2019, making it the first in the nation to provide the Sea Survival module, which is required for working on wind projects offshore.
- **2020**: To conduct a feasibility study to understand the need, interest, and business case for developing and delivering a crew transfer vessel operator training program, specialized

helicopter transfer training, and Global Wind Organisation (GWO) Advanced Rescue Training.

- **2022**: To develop and offer a 40-hour Basic Seamanship course to the Piledriver's Union Local 56, and to develop and offer Global Wind Organisation (GWO) Basic Technical Training, Enhanced First Aid, and Advanced Rescue Training. GWO courses are an industry standard required for many offshore workers.
- **2023:** To expand, design, develop, and implement the Offshore Wind Vessel Simulation and Training Center. The Center will be a full-service simulation platform capable of training on a range of functions from basic tug handling to advanced seamanship methods.
- **2024:** Helicopter Underwater Escape Training. MMA will design, permit, and build a HUET training unit in their underutilized, Olympic-sized swimming pool. The HUET training will be delivered to the internationally recognized OPITO standard.

MassMEP is a nonprofit that brings together government entities, businesses, and academic institutions to help manufacturers in Massachusetts succeed.

- **2024:** Pathways to Production: MassMEP is leading an initiative to train justice-involved individuals and members of underrepresented communities through a 280-hour entry-level training program that covers basic manufacturing competencies.

MassHire Cape and Islands Workforce Board (CIWB): CIWB is responsible for overseeing all publicly funded vocational education and training programs serving the entire Cape and the Islands region. CIWB has been awarded one grant by MassCEC:

- **2023:** To integrate offshore wind topics into existing curriculum at local Voc-Techs and provide internship and co-op experiences to students. Also to allow for students to visit local offshore wind career sites and participate in recruitment events.

North Atlantic States Carpenters Training Fund (NASCTF): NASCTF aims to deliver cutting-edge training and curriculum to apprentice and journey-level union carpenters. MassCEC has awarded NASCTF two grants.

- **2023:** To support the Pile Drivers and Divers Local 56 and the Millwrights Local 1121 to obtain GWO safety certifications, GWO technical certifications, and HUET certifications. In all, over two hundred training opportunities for union members will be offered.
- **2024**: Commercial Diving Training for Pile Driver Apprentices and ROV Training for Journey-level Divers for Offshore Wind Operations. NASCTF will send Pile Driver Apprentices for Commercial Diver training and journey-level divers for ROV Pilot/Technician training at the Eastern Atlantic Carpenters Commercial Diver Training Center in New Jersey.

Salem Public Schools are a public school system focused on delivering an equitable experience to all students. They promote a welcoming atmosphere dedicated to developing well rounded characters.

- **2024:** Empowering the Offshore Wind Workforce: A Proposal for Training Facility and Equipment Investment. Salem Public Schools will construct an offshore wind workforce training facility that will be utilized by students in their CTE program and adults in their Career Technical Initiative program.

Pile Drivers and Divers, Local 56**:** Pile Drivers and Divers, Local 56 represents over 400 pile drivers, divers, burners, riggers, bridge, wharf, and dock builders in MA. Pile Drivers and Divers, Local 56 was awarded one MassCEC grant.

- **2019:** To sponsor trade union members to get certified in Global Wind Organisation (GWO) Basic Safety Training (BST) at the Massachusetts Maritime Academy.

Self Reliance**:** Self Reliance focuses on increasing awareness of energy issues within the region, facilitate properly sited renewable energy system installation, and executing training workshops that help to increase expertise related to renewable energy. Self Reliance has been awarded three MassCEC workforce grants:

- **2021:** Self-Reliance will develop and run a 5-day, 40-hour experiential learning program that introduces the offshore wind industry to K-12 educators and students from Gateway Communities across Massachusetts through a MassCEC grant. The program centers around the KidWind curriculum.
- **2023:** To expand on the 2021 award and offer the 5-day, 40-hour experiential learning program to students for another two years. Also to develop and run multiple one-day workshops on offshore wind for students in underrepresented communities around Massachusetts.
- **2025:** To offer their annual KidWind 5-day, 40-hour experiential learning summer program at Mass Maritime for two years. Eighty students will have the opportunity to participate in classroom experiences, field trips, and hands-on building of model turbines.

Semco Maritime is an international engineering and contracting firm with deep roots in the traditional energy sector as well as renewable energy sources like offshore wind. MassCEC has awarded Semco 1 grant.

- **2024:** Semco Offshore Workforce Training. Semco will work with local partners to identify and hire three candidates for an offshore wind technician position with their company. The candidates will receive thorough training including GWO, HUET, and HLO trainings. One candidate will spend a week at a Semco site in Denmark learning the process for mechanical completion and commissioning.

Southeastern Massachusetts Building Trades Council: (SMBTC) The SE Mass Building Trades Council represents union building trades workers across southeastern Massachusetts. They have received one grant from MassCEC.

- **2022**: To partner with Building Pathways South to provide one hundred union members with GWO Basic Safety Training or an Offshore Wind 101 course. One hundred union members will also have the opportunity to participate in a DEIJ training course.

Southeastern Regional School District has an innovative, hands-on approach to learning. They utilize work-based learning to mix academic with vocational and technical skills. They have received one grant from MassCEC.

- **2024:** Southeastern Regional Offshore Wind Development. Through a partial award, SERSD will upgrade the Advanced Manufacturing and Welding and Precision Machine programs, add to the Engineering Technology program, and create a Chapter 74 Robotics and Automation program.

STEAM the Streets: STEAM the Streets is an organization which aims to inform, inspire, and activate underserved youth to pursue in-demand career paths. They have received two MassCEC grants.

- **2023:** To develop an offshore wind career module including videos on a day-in-the-life of an offshore wind professional and highlighting pathways into the industry. The module

will be hosted on the free STEAM the Streets app and available to local schools for use in their curriculum.

- **2025:** To expand on the impact of their previous grant by bringing their offshore wind career content to 8,000 middle- and high-school students across Massachusetts. Their school assemblies will take place at 20 schools. They will also develop an Offshore Wind Educator toolkit to empower educators to integrate offshore wind career exploration into their classrooms effectively.

Tufts University: Tufts is a private research university located in Medford and Somerville, Massachusetts. MassCEC has awarded Tufts one OSWW grant. They have received one grant from MassCEC.

- **2023:** To conduct a study aimed at identifying the obstacles to safety in installing and maintaining offshore wind turbines. Through speaking with union members, best practices will be identified and disseminated to industry practitioners.

University of Massachusetts, Amherst: UMass Amherst is a public land-grant research university in Amherst, Massachusetts. UMass Amherst has received six grants from MassCEC:

- **2019:** To complete initial design and development of an online offshore wind professional certificate program for graduates and working professionals. The certificate program launched in Fall 2020.
- **2021:** To attract Priority Group members to its existing Offshore Wind Professional Certificate Program through relationships with multiple university STEM programs. Recruitment will initially focus on BIPOC/ethnic minorities. Subsequent recruitment will include veterans, individuals in Gateway Cities/EJCs, and indigenous populations, and women.
- **2022:** To expand its Offshore Wind Professional Certificate program through increased outreach to priority groups, increased scholarship funding, curriculum enhancements, and industry support outreach. Also, to develop an undergraduate offshore wind overview course for UMass Amherst students.
- **2023:** To develop an online summer course for early undergraduates that will guide students to the educational pathways that will help them achieve entry-level job-ready skills aligned with their interests within the offshore wind industry. Also to support the redesign and realignment of the website for the Offshore Wind Professional Certificate program.
- **2024:** Supporting Diversity and Inclusion in the OSW Professional Workforce: Continuing the OSW Career Access Scholarship Program. UMass Amherst will continue to offer the Career Access Scholarship to scholars from Priority Groups interested in completing the Offshore Wind Professional Certificate Program.
- **2025:** To support two cohorts of five students from the key port facilities of New Bedford and Salem to participate in their OSW Professional Certificate program. They will also formalize their relationship with VA educational benefits and perform outreach to veterans in MA and nationally.

University of Massachusetts, Dartmouth: UMass Dartmouth is a public research university located in Dartmouth, Massachusetts. UMass Dartmouth has received three grants from MassCEC.

- **2022**: To develop a paid internship and experiential learning program for students in offshore wind relevant programs at UMass Dartmouth and Bristol Community College. Internship opportunities and capstone project topics will be determined by an advisory board comprised of industry, higher education, and workforce development practitioners.

- **2023:** To develop a graduate certificate program in Ocean Observing, Modeling, and Management of Offshore Wind. Also to provide scholarships and internship support for experiential learning opportunities.
- **2024:** Offshore Wind Student Exchange Program. UMass Dartmouth will host a student exchange program that will be offered as two one-week summer exchanges and experiential learning opportunities for undergraduate and high school students. They will travel to Grimsby in the UK and Copenhagen, Denmark.

University of Massachusetts, Lowell (UML)**:** UML is a public research university located in Lowell, Massachusetts. UML has received three grants from MassCEC.

- **2020:** To build on existing offshore wind workforce research through analysis of the local labor market and current university-level educational offerings. Additionally, to develop educational content and associated credentialing to fill existing gaps.
- **2022:** To develop and provide an OSHA 30-hour construction safety and general industry training to university students, offshore wind supply chain companies, and participants in local workforce development career centers.
- **2025:** To provide OSHA 10-hour, 30-hour, Fall Protection, Confined Space Entry, and Lockout/Tag-out courses to career centers, workforce development non-profits, tribal organizations, colleges, and Tier 1 OSW suppliers. Trainings will be delivered directly in EJ communities to overcome transportation barriers and free training suppliers will be provided.

VINCI VR (VINCI)**:** VINCI VR works to ensure workforces can improve training outcomes by leveraging the full potential of highly realistic simulated training and to significantly lower the barrier of entry for the creation of virtual reality content. VINCI has been awarded two MassCEC grants:

- **2020:** To certify two Global Wind Organisation (GWO) courses (Basic Technical Training-Installation and Slinger Signaler) using virtual reality simulations in partnership with Siemens Gamesa Renewable Energy, an offshore wind turbine manufacturer.
- **2023:** To bring existing offshore wind virtual reality modules to students in New Bedford, Fall River, and Martha's Vineyard. Every 5th grader in New Bedford will be exposed to offshore wind through the project. Also to develop a 'day-in-the-life' VR module of an offshore wind manufacturing career.

Xodus Group (Xodus): Xodus Group is an energy consultancy organization. Xodus has been awarded one MassCEC workforce grant.

- **2021:** To develop and conduct a workforce program designed to provide underrepresented groups with insight on career opportunities in offshore wind, in partnership with Browning the Green Space. The program will demonstrate the pathways to industry employment through two work experience routes: internships and pre-apprenticeships. Target Priority Groups include BIPOC, women, students in Chapter 74 vocational technical education programs, and unemployed and low-income individuals.