MASSACHUSETTS CLEAN ENERGY CENTER®

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Massachusetts Clean Energy Center (MassCEC) FY25 State Budget Reporting:

Per Chapter 140 of the Acts of 2024; within 1595-6232:

1595-6232 *For the Clean Energy Investment Fund, established in section 15 of chapter 23J of the General Laws; provided, that funds shall be appropriated for environmental sector workforce development and investments to support emissions reductions in the energy, transportation and buildings sectors, as directed by the Massachusetts clean energy and climate plan for 2050; and provided further, that not later than April 3, 2025, the executive office shall submit a report to the house and senate committees on ways and means that shall include: (i) the number of workforce development programs receiving funds in fiscal year 2025; (ii) the number of individuals served by said programs; and (iii) the status of projected progress towards the goals outlined in the Massachusetts clean energy and climate plan for 2050 ..... $20,000,000*

The following is the required reporting from MassCEC:

(i) the number of workforce development programs receiving funds in fiscal year 2025;

(ii) the number of individuals served by said programs;

(iii) the status of projected progress towards the goals outlined in the Massachusetts clean energy and climate plan for 2050;

(i) The FY25 state budget funded two workforce development programs:

1. **Offshore Wind Works**

Since 2018, the Offshore Wind Works program has been developing a well-trained, safe, and diverse offshore wind workforce. With FY25 funds, MassCEC expects to award approximately $2.5 million through the successful Offshore Wind Works program that will support workforce

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training partnerships that promote equitable access to offshore wind careers and align with the needs of the emerging offshore wind industry. Fourteen (14) proposals were received in April 2025, requesting a total of nearly $3.5 million in funding. Awards are anticipated in the May–June timeframe.

The FY25 Offshore Wind Works solicitation invited proposals across four (4) focus areas: (1) port and terminal workforce training, (2) education and curriculum development at vocational-technical schools and higher education institutions, (3) skilled trades and offshore-specific safety training, and (4) career pathways and awareness-building efforts that reduce barriers to entry for underrepresented populations. Project types solicited included the development and expansion of training programs, delivery of DEI-focused access-to-opportunity initiatives, and investments in infrastructure such as simulators, training equipment, and specialized safety facilities. Across all focus areas, the program emphasizes strong industry partnerships, alignment with workforce needs, and support services to improve retention and success for participants from priority groups.

2. **Climate-Critical Training Grants**

FY25 State Budget resources also focused on cultivating and sustaining a skilled and adaptable climatetech workforce which includes new entrant training pipelines and upskilling efforts for incumbent workers. The FY25 Climate-Critical Training Grant program was designed to award grants of up to $800,000 for up to two (2) years to programs that support individuals seeking employment or upskilling in the clean energy sector. The RFP offers two response deadlines for applicants – February 7, 2025, and May 2, 2025.

MassCEC received nine (9) applications from eight (8) organizations for the first deadline of the Climate-Critical Training, Equipment, and Infrastructure Grant solicitation for a total of $4,583,774 requested. To date, MassCEC has awarded $2,455,426. MassCEC anticipates a strong request for resources for the second upcoming deadline in May.

(ii) The number of individuals served by said programs is 504 and will increase as additional awards are made this fiscal year:

1. **Offshore Wind Works**

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Awards are still being made. MassCEC will have a number of individuals trained once awards are finalized.

2. Climate-Critical Workforce Training

To date for FY25, 504 individuals will be served by this program. Once all funds are awarded, MassCEC will have an updated number of individuals served.

Awardee	Occupation Focus	Sector Focus	Region	Estimated # of Participants to be Served
Ground Force Collective	Millwrights, piledrives, carpenters, electricians, laborers, operating engineers, ironworkers, bricklayers, pipefitters, and painters	Offshore Wind	Statewide	N/A (planning grant)
HomeWorks Energy	Weatherization Crew Leads, HVAC/R Installers and Technicians	High-performance Buildings	Greater Boston, Central Mass, Hampden	100
Ithaca Clean Energy	Mariners, crane operators, dockyard workers, fishermen	Offshore Wind, Net Zero Grid, Transportation	Greater New Bedford	75
MassHire Metro North Workforce Board	HVAC/R Installers and Technicians	High-performance Buildings	Metro North	75
Northeast Home Energy Rating System (NEHERS)	Rating field inspector, HERS modeler and HERS rater	High-performance Buildings	Statewide	62
Studio for High-Performance Design and Construction (Studio HPDC)	Carpenters, Construction Supervisors/Project Managers, Insulation Workers	High-performance Buildings	Northeast	192

(iii) The status of projected progress towards the goals outlined in the Massachusetts clean energy and climate plan for 2050 is described below:

Workforce Development:

To reach the Commonwealth's 2050 CECP requirements, rapid clean energy sector workforce expansion will need to occur across all segments of the clean energy economy. MassCEC is committed to supporting the clean energy and climatetech workforce development needs of

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workers and employers. In FY23, MassCEC supported over $26 million in workforce development programming, including over $18 million in Equity Workforce grants, which provided funding to train workers in low-income and disadvantaged communities for high-quality careers and expanded the state's capacity to address training gaps in priority occupations. Likewise, in FY24, MassCEC supported nearly $38 million in workforce development programming, including over $16 million in Equity Workforce grants, which benefit underserved populations.

MassCEC has so far awarded $2.5 million for six (6) Climate-Critical Workforce Training Grants using FY25 state budget funding to train an estimated 504 individuals. MassCEC has also awarded a grant for $310,000 in ARPA funding which will support the training equipment and infrastructure needs of climate-critical training programs across the state. More than $4.5 million in state budget funding is available for the second deadline in May 2025.

The FY24 Climate-Critical Training Grant solicitation was also designed to award implementation funds via grants of up to $800,000 for up to two years to programs that support individuals seeking employment or upskilling in the clean energy sector. Twenty-two (22) applicants responded to the solicitation for a total of $13,785,431.87 requested. MassCEC's FY24 legislative report submission included only awards made at the time of reporting; below is our full report. As documented below, MassCEC awarded a total of $5,595,010 in Climate-Critical Workforce Training Grants using $3.3 million of FY24 state budget funding and $2.3 million of ARPA funding to train an estimated 967 individuals.

The table below is the full list of awardees in FY24.

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Awardee	Occupation Focus	Sector Focus	Region	Estimated # of Participants to be Served
Asbestos Workers Local 6, Apprenticeship Fund*	Insulation Workers	High-performance Buildings	Statewide	160
Gloucester High School*	EV Technicians, Assemblers, Operating Engineers	High-performance Buildings, Transportation, Offshore Wind	Northeast	215
HVAC Pro Blog LLC	HVAC/R Installers	High-performance Buildings	Central Mass, Greater Boston, Cape & Islands	N/A -Planning Grant
Julius Education*	Climate-critical occupations	High-performance Buildings, Offshore Wind, Net-Zero Grid, Transportation	Statewide	N/A -Technology Infrastructure
Local 103 I.B.E.W. Educational Corp.**	Electricians	High-performance Buildings, Offshore Wind, Net-Zero Grid, Transportation	Greater Boston	400
National Grid	Clean Energy Positions	Net-Zero Grid	Greater Boston, Central Mass	40
Northeast Home Energy Rating System Alliance (NEHERS)*	Energy Auditor/HERS Rater	High-performance Buildings	Statewide	50
Southern Middlesex Opportunity Council (SMOC)*	HVAC/R Installers	High-performance Buildings	Metro South/West, Greater Boston, Central Mass, Hampden	42
Upper Cape Cod Technical School*	Electricians	High-performance Buildings	Southeast, Cape & Islands	60

*Awardee also received other MassCEC funding (not state budget funds) for training, equipment or infrastructure.
**Participants will benefit from participating in the installation of new, updated equipment and infrastructure.

Additionally, $1.3 million of FY24 state budget funding was utilized to 1) develop a comprehensive, cross-agency, statewide clean energy and climate resiliency workforce development plan; and 2) the creation of a statewide Climate Services Corps (a program that provides support to organizations that run work-based learning and career support in energy efficiency and heating and cooling technologies that produce lower emissions for people ages 18-24). These objectives align with the Massachusetts Clean Energy and Climate Plan for 2050.

MassCEC's Workforce Development Department also worked closely with the MA Department of Energy Resources (DOER) to secure a number of federally funded awards aligned with the Massachusetts 2050 CECP and workforce targets. In October 2024, DOER, in partnership with

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MassCEC, Roxbury Community College, and Greenfield Community College, received a $2 million Energy Auditor Training grant from the US Dept of Energy (DOE).

Additionally, DOER, MassCEC, and the cities of Boston and Cambridge launched a new partnership, garnering a $19.9 million Assistance for Latest and Zero Building Energy Code Adoption grant from the DOE, which includes funding to support a Career Technical Instructor Externship program. This program would help instructors at public career technical high schools who are preparing young people for jobs in the building trades understand the latest building performance standards and how building contractors are helping owners meet these new energy efficiency requirements. This will help them prepare their students for the latest skills and technologies needed. MassCEC and DOER also partnered on an application that was awarded $2.7 million in DOE formula funding for Training for Residential Energy Contractors (TREC). Lastly, the Environmental Protection Agency (EPA)-funded Solar for All program, includes $7 million in funding for apprenticeship and training programs and a solar business accelerator. The Solar for All program provides funding for solar development in underserved communities.

Offshore Energy:

The 2050 CECP identifies offshore wind as a cornerstone of the Commonwealth's strategy to decarbonize the electric grid and expand the clean energy economy, setting a target of approximately 23 gigawatts (GW) of offshore wind capacity by 2050. The initiatives described below directly support 2050 CECP goals by building and preparing a skilled and inclusive workforce, accelerating innovation, and strengthening the offshore wind ecosystem—enabling the Commonwealth's transition to a decarbonized energy system while driving economic growth and equity.

MassCEC is advancing these goals through four (4) key program areas:

1. Offshore Wind Workforce Development: Details on anticipated FY25 awards for the Offshore Wind Works program are provided in the section above. In FY25, MassCEC held quarterly meetings of the Offshore Wind Works Community of Practice (CoP), bringing together workforce stakeholders to share best practices and strengthen collaboration. To continue this work and expand its impact, MassCEC anticipates making a FY25 award

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to support ongoing facilitation through the next calendar year. This effort will include continued quarterly CoP meetings led by professional facilitators, as well as the launch of new quarterly affinity group meetings focused on higher education and community-based organizations. These affinity groups will work to identify and build distinct pathways between programs, enhancing coordination and connectivity across the offshore wind workforce development landscape.

2. Offshore Wind Business Support: In FY25, MassCEC will launch the Offshore Wind Works Business Ready Pilot Program. The program will seek to onboard a team of consultants to help guide multiple (10-12) businesses, with one anticipated award totaling approximately $320,000. This initiative will support Massachusetts-based businesses in enhancing operational readiness and pursuing procurement opportunities in the offshore wind supply chain.

   Also, MassCEC along with industry, academic, and NGO partners is developing plans to lead initiatives to provide facilities and services to support entrepreneurs, start-ups, and SMEs to address key challenges to commercialization and deployment of technologies. An RFP for these services will be released later this spring (2025).

3. Ports Investments: In FY25, MassCEC continued to manage the Offshore Wind Ports Investments Challenge funding, which awarded $200 million to seven projects representing a diverse cross-section of the offshore wind supply chain including investments on both the north and south shores such as the Salem Offshore Wind Terminal and the New Bedford Marine Commerce Terminal. This funding leveraged over $444 million of significant new capital expenditure and is estimated to produce over 27,000 new job years.

   *One award of $25 million (Prysmian Cable Manufacturing) was ultimately declined. These funds will be repurposed. *

   MassCEC owns and operates the 30-acre New Bedford Marine Commerce Terminal, the first purpose built offshore wind marshalling port in the United States and the site of Vineyard Wind's staging for its 800 MW project. In the spring of 2025, MassCEC commenced an expansion and improvement project that will result in the terminal being able to fully support the larger turbine parts being manufactured for the next

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generation of offshore projects. This significant investment in improvements to the Terminal is critical to meeting the Commonwealth's climate goals.

4. Science & Research**:** MassCEC continued to cultivate capacity and provide direct support for science and research that helps reduce costs, increase reliability, and address identified challenges for advancing the responsible development of offshore wind. In FY25, MassCEC awarded $3.2 million to eight (8) grantees for science and research projects, covering topics including fisheries and wildlife interaction with offshore wind, and wind turbine blade testing technology. MassCEC awarded $2 million to UMass Amherst for launch of the DOE-designated Offshore Wind Center of Excellence, Academic Center for Reliability and Resilience of Offshore Wind (ARROW) to advance post-secondary training in offshore wind in the context of reliable and resilient offshore wind planning, infrastructure, and operations. MassCEC also continues a unique partnership with state, federal, and UK agencies to support applied research to accelerate offshore wind deployment and address challenges through the National Offshore Wind Research and Development Consortium (NOWRDC) ($1million awarded in FY2024).

Additionally, below is an updated table from the FY24 State Budget Report. The prior submission included only awards made at the time of reporting; since then, an additional eleven (11) awards have been made.

The total awarded for these FY24 Offshore Wind Works grants is $8,217,500, including money from both ARPA and $1 million from the Vineyard Wind Accelerator, a $15 million investment committed as part of Vineyard Wind's 2018 successful bid in Massachusetts' first offshore wind energy procurement.

OSWW FY24 Awards

Awardee	Occupation Focus	Sector Focus	Region	Estimated # of Participants to be Served

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Semco Maritime Offshore Wind Service	Offshore Wind Technicians	Offshore Wind	Southeast Cape & Islands	3
North Atlantic States Carpenters Training Fund	Pile Drivers, Commercial Divers, ROV Operators	Offshore Wind	Statewide	36
UMass Amherst Clean Energy Extension	Professional/ Students	Offshore Wind	Statewide	12
Massachusetts Manufacturing Extension Partnership	Manufacturing	Offshore Wind	Statewide	23
Ironworkers Local 7	Ironworkers	Offshore Wind	Greater Boston	34
Bristol Community College	Offshore Wind Technicians	Offshore Wind	Statewide	10
UMass Dartmouth	Students	Offshore Wind	Southcoast	20
IWNL Energy	Students	Offshore Wind	Southcoast	900
Boys and Girls Club of New Bedford	Youth	Offshore Wind	Southcoast	200
Gloucester Fishermen's Wives Development Program	Fishermen	Offshore Wind	North Shore & Southcoast	55
New Bedford Foss Marine Terminal (Vineyard Wind Accelerator)	International Longshoremen's Association	Offshore Wind	Southcoast	40
			Total:	**1,333**
Training Infrastructure & Equipment Awards (Funded via ARPA)				

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Awardee	Occupation Focus	Sector Focus	Region	Estimated # of Participants to be Served Annually*
Salem Public Schools	Students/skilled trades	Offshore Wind	North Shore	100
Southeastern Regional School District	Students/skilled trades	Offshore Wind	Southcoast	150
Bristol Community College	Offshore Wind Technicians	Offshore Wind	Statewide	500
Massachusetts Maritime Academy	Skilled labor	Offshore Wind	Statewide	320
			Total:	**1,070**

Clean Transportation:

The 2050 CECP set a benchmark of 93% of medium and heavy-duty vehicles being either electrified or non-emitting and 97% of light-duty vehicles. Key sector strategies to achieve these benchmarks include retirement of internal combustion engines, encouraging smart charging, and addressing hard-to-electrify modes of transportation. MassCEC has worked toward these goals in the following ways:

1. Increasing Access to Clean Transportation: MassCEC funds projects that demonstrate innovative, equitable, and replicable clean transportation technologies and modalities projects, and meet the twin goals of increasing access and reducing burdens. Focus areas of this program aim to support the 2050 CECP strategies of encouraging smart charging through a focus on EV charging accessibility models, addressing hard-to-electrify modes of transportation through supporting Regional Transit Authority ("RTA") decarbonization projects and projects that expand access to economic opportunities through education, training, and demonstrations of emerging technologies.

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FY25 ACT4All2 Grants (Total: $11,185,430):

Awardee	Sector	Region	Population Served
Answer to Prayer ("ATP") Network	Electric vehicle ("EV") chargers, faith centers	Statewide	Faith centers in Environmental Justice Communities ("EJCs")
Equal Energy Mobility[4]	Streetlight-mounted EV charging, carsharing	Mashpee-Wampanoag Tribal Lands, Barnstable County	Mashpee-Wampanoag Tribe members, Low-income Barnstable County residents
Metropolitan Area Planning Council	Non-grid tied EV charging, housing authority, carsharing	Boston, Chelsea, Somerville, Framingham, Natick, Quincy	Housing authority residents
Matcha Labs	EV chargers, multi-unit dwellings ("MUD")	Quincy, Randolph, Natick, Framingham, Brockton, Roxbury, Chicopee, Acton	EJCs, renters, Black and Indigenous people of color ("BIPOC"), MUD residents
PowerOptions	EV chargers, community outreach, nonprofit and public entities	Statewide, EJCs	Low and/or moderate income ("LMI") drivers, EJ communities, Gateway Cities, multi-unit/affordable housing residents
Berkshire Regional Transit Authority	Hydrogen fuel cell cutaway bus, gasoline bus conversion, rural area	Berkshire County, Pittsfield	EJCs, Gateway Cities, rural communities
Franklin Regional Transit Authority	Fleet electrification, rural area	Franklin County	EJCs, rural communities
Pioneer Valley Regional	Battery electric buses ("BEVs"), Senior van	Greater Springfield Area, Pioneer Valley	Low-income and English language isolated individuals,

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Transit Authority	service, ADA compliance		persons with disabilities, persons 60 or over
Metro Mobility	Shared E-bike stations, public transit stops, first mile/last mile	Lawrence, Lowell, Newburyport, and Worcester	LMI individuals, EJCs, Gateway Cities
City of Northampton	Shared E-bike stations, first mile/last mile	Pioneer Valley	Low-income individuals, houseless residents, rural communities
Madison Park Technical Vocational School	Workforce training, EV technology education, curriculum	Boston	EJCs

2. Increasing Access to Electric School Busses: In FY25, MassCEC awarded the third round of a program that supports the electrification of school buses. An additional eleven (11) school district fleets were supported in electrification. This program is a leader in the medium- and heavy-duty vehicle sector for decarbonizing transportation. This program demonstrates the state strategies of retirement of internal combustion engines, encouraging smart charging, and how to address hard-to-electrify modes of transportation.

FY25 Electric School Bus Grants (Total: $11,166,690):

Awardee	Region	Vehicles Electrified
Beverly School District	**Beverly**	8
Acton-Boxborough School District	**Acton-Boxborough**	4
First Student	**Fitchburg**	18
Mercedes Cab	**Cape Cod Regional Technical**	10

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Beacon Mobility	**Salem**	13
Beacon Mobility	**Ipswich**	11
Highland Electric	**Hingham**	3
Highland Electric	**Essex North Shore Agricultural Technical**	4
Highland Electric	**Gloucester**	6
Highland Electric	**Amherst - Pelham**	3
Highland Electric	**Marblehead**	1

3. Statewide E-bike Voucher Program: The 2050 CECP outlined strategies that the Commonwealth will pursue to promote clean alternatives to personal vehicle travel. MassCEC is assisting in this strategy via the recently announced Massachusetts Statewide E-bike Program. This Program is funded by $4.35 million from the FY24 state budget and provides incentives to income eligible Massachusetts residents to reduce the cost of purchasing e-bikes. As noted in the CECP, the e-bike voucher program is a key strategy to reduce growth in total vehicle miles travelled (VMT) and GHG emissions in Massachusetts. The Program will also contribute to the Commonwealth's goal of equitably facilitating access to clean energy technologies across the state.

4. Charging Solutions Programs: MassCEC developed and launched a series of four (4) charging station programs, supporting the CECP strategies of encouraging smart charging, with a key focus on addressing hard-to-electrify modes of transportation and retirement of internal combustion engines. This was a direct result of the finding of the Electric Vehicle Infrastructure Coordinating Council. The four programs are as follows:

   - Vehicle-to-Everything Charging Solutions
   - On-street Charging Solutions
   - Vehicle-for-Hire EV Charging Solutions
   - Medium- and Heavy-Duty Mobile and Non-Grid Tied Charging Solutions

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High Performance Buildings:

The 2050 CECP calls for 80% of homes heated and cooled by electric heat pumps and 87% of commercial space heated by either electricity or alternative fuels. MassCEC has worked toward those goals in the following ways:

1. Concierge Support for Residential Electrification: MassCEC launched the Home Modernization Navigator Program in Springfield and Lowell in November 2024 to provide customized and ongoing guidance for underserved residents pursuing electrification, efficiency, and renewable energy projects. The program will expand in 2025 and is part of a statewide initiative led by the Executive Office of Energy and Environmental Affairs (EEA) Climate Team to make building decarbonization more accessible and equitable.

2. Making Building Electrification More Affordable: In November 2024, MassCEC expanded its Building Electrification and Transformation Accelerator to establish replicable, lowest cost approaches for transitioning residential and commercial buildings from inefficient and fossil-fuel burning equipment to efficient, electric technologies. MassCEC also sponsored a pilot with Ipswich Electric Light Department and the Center for Ecotechnology to demonstrate whether tariffed on-bill financing of decarbonization measures could remove barriers for low-income households, particularly renters, and decrease implementation costs. These learnings can be developed into best practice guidance and shared at scale.