



# GOVERNOR'S Energy Office

Celina Cunningham, Deputy Director





## Maine's Climate and Clean Energy Targets:

**REDUCE  
GREENHOUSE  
GAS EMISSIONS**

**45%**

BELOW 1990 LEVELS  
**BY 2030**

**80%**

BELOW 1990 LEVELS  
**BY 2050**

**TRANSITION TO  
CLEAN ENERGY**

**80%**

**BY 2030**

**100%**

**BY 2040**

**ACHIEVE CARBON  
NEUTRALITY**

**2045**

**CREATE CLEAN  
ENERGY JOBS**

**30,000**

**BY 2030**

# Clean Energy Partnership (CEP)

Supported by \$6.5 million from the **Maine Jobs and Recovery Plan** to GEO

## Workforce Development (\$3.7m)

- \$2.9m to support workforce development
- \$800k to develop workforce clearinghouse – centralized location with information related to education, training and employment opportunities and resources

## Innovation (\$2.5m)

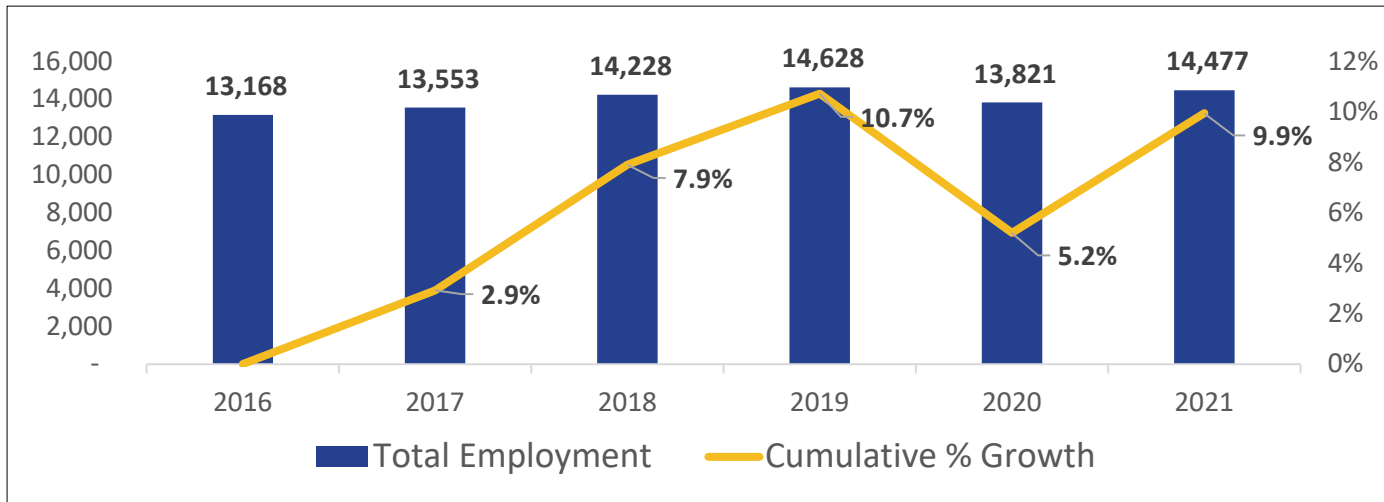
- \$2.25m for clean energy innovation and business support
- \$250k for clean energy finance study

## Advisory Group

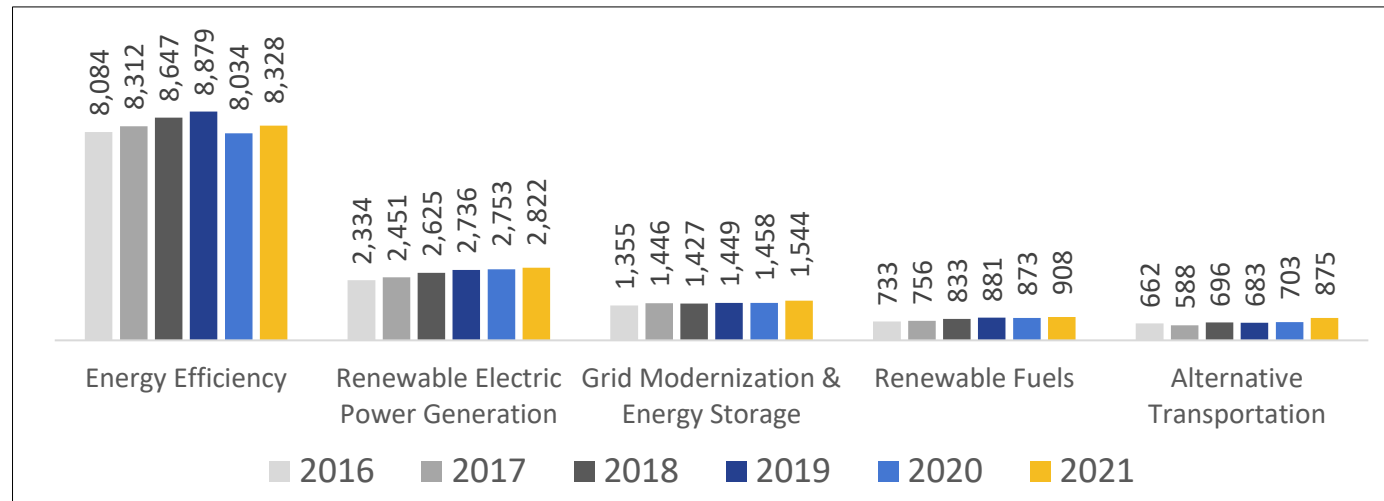
- State Departments: Labor, Education, Economic & Community Development
- Community Colleges & Universities; Labor, Industry, Researchers & Consultants

<https://www.maine.gov/energy/initiatives/cep>

# Clean Energy Workforce in Maine



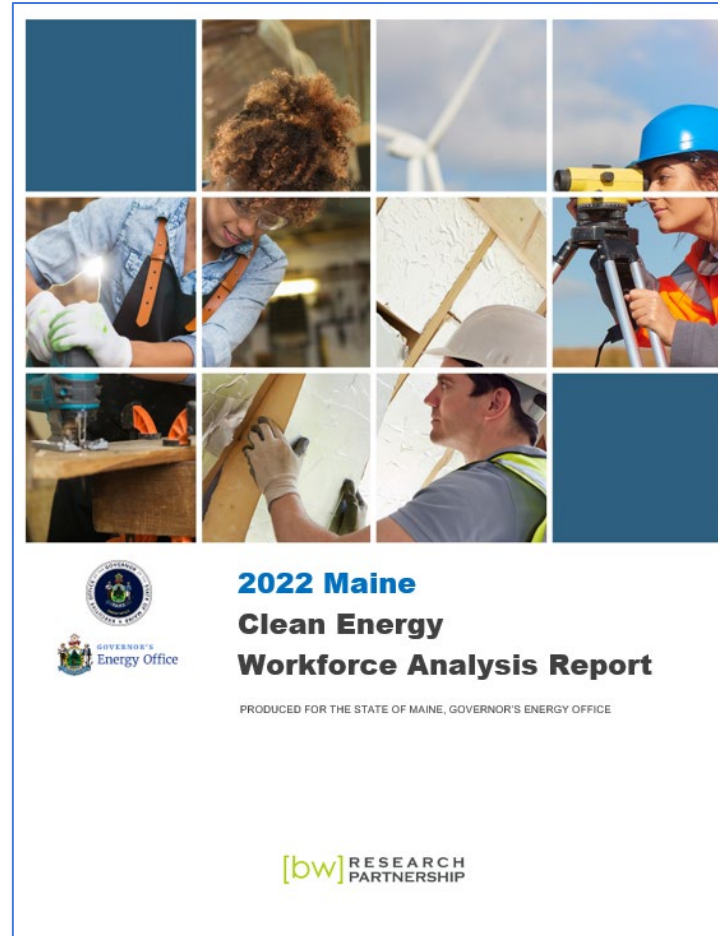
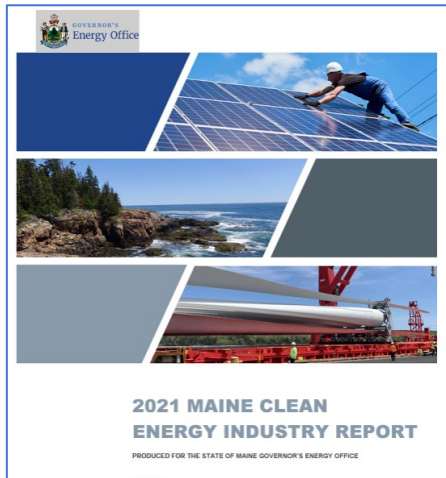
**14,477**  
**Clean Energy  
 Workers in 2021**



**5%**  
**+656 jobs**  
**Job Growth from  
 2020 - 2021**

*Data source: BW Research, 2021 Maine Clean Energy Industry Report and DOE US Energy and Employment Report 2022*

# Clean Energy Workforce Analysis



## Key Research Activities:

1. Define clean energy and related employment
2. Engage stakeholders
3. Identify employer needs and challenges
4. Understand training & asset landscape
5. Profile current and potential clean energy workers

# Clean Energy Workforce Recommendations

1. **Expand access to apprenticeships** and other earn-and-learn models
2. **Increase offerings of hands-on courses and modules** geared towards learning “trade skills” in early education settings
3. **Create a clearinghouse** for clean energy workforce development efforts, resources, and funds in the state
4. **Offer training stipends** and other incentives to support business’ onboarding, recruitment, and training costs
5. **Support pathways to entrepreneurship**, particularly for lower-wage jobs

## **Maine Climate Council Equity Subcommittee Recommendations:**

**Ensure that tools and resources are designed to support disadvantaged students and job seekers**

**Identify workers and industries disproportionately impacted by climate change and identify pathways into clean energy and climate friendly careers**

# Clean Energy Partnership Funded Projects

- **Attracting new workers** to the clean energy and energy efficiency workforce
- **Providing career training and upskilling** opportunities to existing workers
- **Increasing diversity and representation** in the clean energy workforce
- **Facilitating entry into rewarding and high-paying jobs** in clean energy through new and expanded internship, Registered Apprenticeship, and pre-apprenticeship models

**Energy  
Efficiency**

**Construction  
& Trades**

**Solar**

**Offshore  
Wind**

# Thank You

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HAROLD ALFOND CENTER  
FOR THE ADVANCEMENT OF  
**MAINE'S WORKFORCE**

Short-term workforce training through Maine's community colleges

# Retraining Maine Workers for Tomorrow's Jobs

Maine's Community Colleges

May 19, 2023



## HAROLD ALFOND CENTER FOR THE ADVANCEMENT OF **MAINE'S WORKFORCE**

Short-term workforce training through Maine's community colleges

Maine Legislature established **Maine Quality Centers** in 1994 for workforce training. Deployed by the Maine Community College System, it demonstrated high quality training that was responsive to employers' needs. To address critical workforce development needs, MCCS has extended partnerships and looked beyond degree programs to offer accelerated short-term training to benefit employers, trainees, the economy and the state. The new **Harold Alfond Center for the Advancement of Maine's Workforce** is the collaborative way MCCS works.

# MCCS works

EMPLOYER



COLLEGE



STATE



PRIVATE



TRAINEE





## Status Update: Maine Jobs and Recovery Plan

# PRE-HIRE TRAINING

Funded by the Maine Jobs and Recovery Plan and Maine Quality Centers, each of Maine's community colleges has a workforce department and programs offering short-term, pre-hire training to the public for free. These programs fill high-demand positions and take less than one-year to complete; many take only a few months. Trainees conclude the courses with the skills needed to go directly into the workforce while earning credit for a future degree. Community colleges work with industry leaders to develop or accelerate curriculum.

**Goal: 8,500 trainees**

Training Programs 178

Students Enrolled 2,479

Students Approved 6,191

Funds Committed \$19.2M



# INDUSTRY EMPLOYMENT

	Employment	10-Year Separations	10-Year Employment Growth	10-Year Total Demand
Electrician	3,554	3,620	15	3,636
Solar Installation	68	84	26	110
Heating, Air Conditioning, and Refrigeration Mechanics	2,259	2,070	-106	1,963



*Thank you for your time*

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