

# New York State Energy Planning Board

## NYSERDA Workforce Development and Training Programs

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# Workforce Development and Training Framework

## Demand

- EEPS
- RPS
- RGGI
- WAP
- SEP
- EECSBG

Labor Market Information  
(Leveraged Resources: State Energy Plan)

## Job Projections

- Staffing profile – % of workers in each occupation.
- Wages – Median, Entry and Experienced.
- Typical education and training requirements.
- Career ladder opportunities.
- Occupational projections.
- Supply & demand assessment.

Workforce Strategy

## Workforce Needs

- Pathways Out of Poverty/ Entry-level
- Degrees / Licenses / Certificates
- Entrepreneurial/CEO
- Codes Training
- Incumbent Worker
- Occupational Skills
- Job Placement
  - Apprenticeship
  - OJT/Internships

Workforce Training  
(State Agency Leveraged resources: \$127.6M)

## Worker Supply

- Skilled Trades Training
- Incumbent Workers/Professional Services
- Emerging Workers - degrees , licenses , credentials
- Youth (16-24 years)
- Disadvantaged Workers

## State Agency Leverage for Workforce Training - \$127.6M

EEPS (PSC/NYSERDA) = \$6.6M; RGGI (DEC/NYSERDA) = \$8M; WIA State (NYS DOL) = \$7M; WAP (DHCR) = \$15M; OTDA Green Jobs = \$7M; ARRA SEP/EECSBG (NYSERDA) Energy Code Training = \$6.5M; ARRA SEP (NYSERDA) Training Equipment = \$4M; NYSDOL Emerging and Transitional Worker Training = \$50M, NYSDOL/OTDA Career Pathways = \$17.5M; NYS DOL Disconnected Youth = \$5M

# Workforce Development and Training Programs for the New York State Clean Energy Sector

Career Pathways/ Basic Skills Training	Technical Training/ 2-4 yr Degree & CEU	National Worker Credentialing	Internships and R&D Fellowships
Training for disadvantaged workers, workers-in-transition, and youth initiatives focused on basic construction skills and coordinated with national worker readiness credential and career services	Training to facilitate increased penetration of clean energy technologies manufactured and installed in New York State through well established regional access to state-of-the-art training and education services	Training to accelerate a NYS workforce armed with nationally recognized credentials that help strengthen policy initiatives and promote quality work performance (USGBC LEED, AEE, NAHB, BPI, etc.)	Internship and research fellowships to promote highest quality workforce experienced in clean energy technology manufacturing, installation, operations and maintenance

# Workforce Development and Training Programs for the New York State Clean Energy Sector

- Businesses receive OJT funds for new and incumbent worker training
- Job seekers supported through career counseling, training, and job placement
- Training providers receive funding for:
  - Equipment
  - Instructor Train-the-trainer
  - Program accreditation



# Clean Energy Occupations, Training Providers and Highly Regarded National Credentials

- Occupations/Job Classifications
  - Air sealing and insulation installers
  - Building performance retrofit specialists
  - Energy auditors/Home rater
  - Resource conservation specialists and energy managers
  - Project managers and executives
  - Building control technicians
  - Code Officials
- Education Providers
  - Technical/Vocational
  - Community Colleges
  - Union Training Centers
  - Industry/Professional CEU
  - Manufacturers
  - Not-for-Profit
- National Credentials
  - BPI
  - USGBC LEED AP, GPRO
  - NATE/NORA, HVAC Excellence
  - NAHB

# Construction Trades

- Funding: Primarily RGGI/GJGNY and EEPS
  - Promotion of energy efficiency, energy conservation and clean technologies
  - Reduce energy consumption and costs
  - Reduce greenhouse gas emissions
  - Support sustainable community development
  - **Create green job opportunities, including for emerging, unemployed and displaced workforce**

**Training funds are focused on basic skills, hands-on skills development and workforce credentials.**

# Professional Services

- Funding: EEPS and SBC
  - Promotion of energy efficiency, energy conservation and clean technologies
  - Reduce energy consumption and costs
  - **Support ESCO services sector and A/E community that can deliver energy savings and secure future economic benefits for New York State**

**Training funds are focused on curriculum development, technical standards, and professional workforce credentials.**

# Building Services

- Funding: EEPS, SBC, RGGI/GJGNY
  - Promotion of energy efficiency, energy conservation and clean technologies
  - Reduce energy consumption and costs
  - **Support Trades training and Sustainable Buildings training for New York State Buildings under Executive Order #4**
    - Building Operator Certification
    - Advanced Lighting Controls Training
    - USGBC LEED and GPRO Operations and Maintenance

**Training funds are focused on expanding trades and building services training to include energy efficiency topics and workforce credentialing.**



# Component Manufacturing

- Funding: SBC4
  - Promotion of advanced technologies in energy efficiency and renewable energy areas
  - Support product manufacturing and professional services to specify, install, and operate clean energy technologies
  - **Support standards development, new education/training programs, and innovative on-the-job training/internships**

**Training funds are focused on innovative training and applied educational programs in cooperation with educators and industry.**

# Statewide Coordination of Workforce Development and Training Initiatives

Outreach  
and  
Screening

Worker/  
Job  
Readiness

Energy  
Efficiency  
Basic  
Skills  
Training

Energy  
Efficiency  
Technical  
Training

Internships  
OJT  
&  
Job  
Placement

NYS DOL Business Services and Training Provider Counselors

# New York State Clean Energy Training Supply Map

## Finger Lakes/Rochester/Syracuse

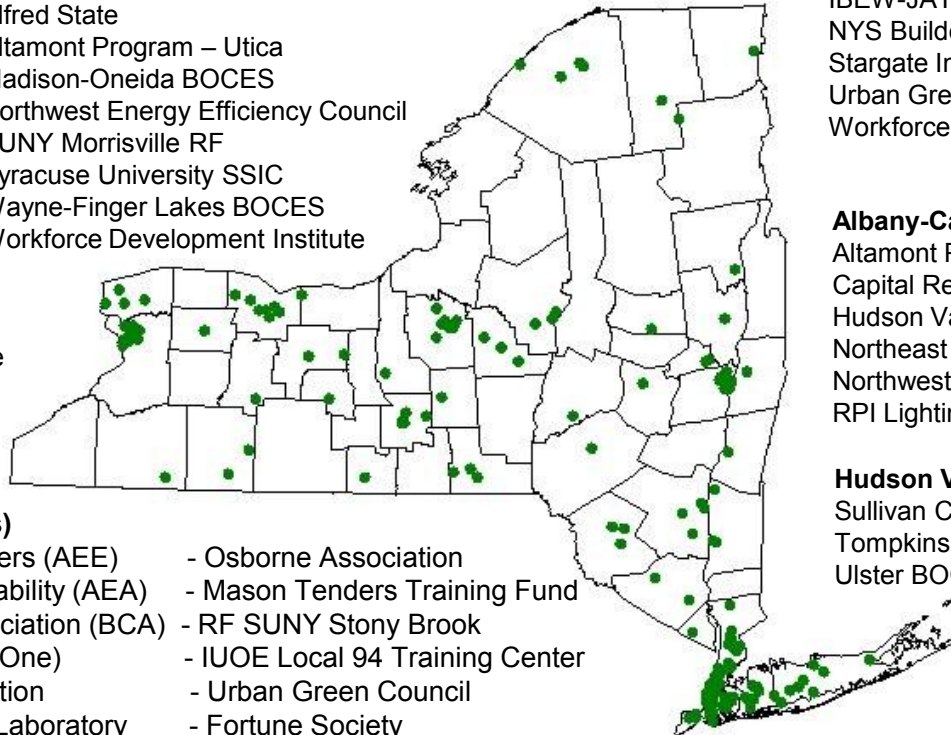
Alfred State  
 Altamont Program – Utica  
 Madison-Oneida BOCES  
 Northwest Energy Efficiency Council  
 SUNY Morrisville RF  
 Syracuse University SSIC  
 Wayne-Finger Lakes BOCES  
 Workforce Development Institute

## Buffalo-Erie

Erie 1 BOCES  
 Erie Community College  
 Outsource Center

## New York City (5 Burroughs)

Association of Energy Engineers (AEE) - Osborne Association  
 Association for Energy Affordability (AEA) - Mason Tenders Training Fund  
 Building Commissioning Association (BCA) - RF SUNY Stony Brook  
 CEC Stuyvesant Cove (Solar One) - IUOE Local 94 Training Center  
 Consortium for Worker Education - Urban Green Council  
 CUNY Building Performance Laboratory - Fortune Society  
 CUNY Institute for Urban Systems (CIUS)  
 Green Light New York  
 Karpman Consulting  
 Northern Manhattan Improvement Corporation



## Statewide Programs

Building Performance Contractors Association  
 Green University Home Builders  
 Home Energy Team  
 IBEW-JATC  
 NYS Builders Association  
 Stargate International  
 Urban Green Council  
 Workforce Development Institute

## Albany-Capital Region

Altamont Program- Albany  
 Capital Region BOCES  
 Hudson Valley Community College  
 Northeast Parent and Child Society, Inc.  
 Northwest Energy Efficiency Council  
 RPI Lighting Research Center

## Hudson Valley/Southern Tier

Sullivan County BOCES  
 Tompkins County CC  
 Ulster BOCES