Building Your Workforce for the Clean Energy Economy

Davetta Thacher, Senior Project Manager, NYSERDA
Adam Romano CEM, Senior Building Systems Consultant, Steven Winter Associates
Joe Berman, Senior Advisor, Market Development, NYSERDA
Joe Foskett, Director of Government Affairs, Business Council of New York State

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Clean Energy
Workforce Development
and Training

Davetta Thacher
Senior Project Manager
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In the 2020 State of the State, Governor Cuomo announced a $100 million commitment to change the landscape of New York’s workforce through clean energy and energy efficiency workforce development and training.

Funding will provide opportunities for activities as diverse as:

> Training building and operations staff to properly operate and maintain building systems
> Providing on-the-job training for new clean energy workers
> Supporting internships for students looking to gain hands-on skills at a clean energy company
> Enhancing curricula to meet the demands of clean energy employers
> Establishing a talent pipeline that can reduce the business cost of hiring new workers
Workforce Development – Program Overview

- NYSERDA provides funding to develop and implement sustainable clean energy training that meets business needs and addresses market gaps. Currently:
  - 24 organizations are training over 7,000 new and existing workers to design, sell, manufacture, install, inspect or operate clean energy technologies; electrification & energy efficiency highest priorities
    - 12 of these projects will serve 1,200 individuals from priority populations, preparing them for new clean energy careers
  - 46 projects have been awarded over $10 million in funding to train 6,000 building operations and maintenance staff that work in a total of 244 million sf of commercial buildings; $422 million in annual energy expenditures
PON 3981
Energy Efficiency
and Clean
Technology Training
Goal: Develop and deliver training, provide hands on experience and job placement assistance to ensure new and existing clean energy workers have skills businesses need.

Participants
• Unions, colleges and universities, manufacturers, distributors, trade associates, community-based organizations, technical high schools, training and job placement intermediaries

Program Funding
• $4 million, multiple due dates
• Funding up to $250,000 per proposal, 30% cost share required
• Preference for projects that provide training and job placement services to workers with barriers to employment (priority populations)
PON 3982
On-the-Job Training for Energy Efficiency and Clean Technology
Goals:
• To reduce the costs associated with recruiting, hiring, and training new workers
• To teach new workers occupational skills to help clean energy businesses succeed

Program Resources:
• $14 million in incentives available, including limited funding for Long Island businesses
• Funding provided to offset wages for new hires; higher incentives for priority populations

Target Audience:
• “Workers” include those who design, manufacture, specify, sell, distribute, install, operate, maintain, repair, inspect energy efficiency and clean energy technologies and systems
## PON 3982 - On-the-Job Training Incentives

<table>
<thead>
<tr>
<th>Categories</th>
<th>Number of Employees</th>
<th>Reimbursement Rate (up to $16/hr)</th>
<th>Reimbursement Period</th>
<th>Traditional Worker</th>
<th>Priority Population Worker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Efficiency &amp; Clean Energy</td>
<td>2 - 100</td>
<td>50%</td>
<td>Traditional Worker</td>
<td>16 Weeks</td>
<td>24 Weeks</td>
</tr>
<tr>
<td></td>
<td>101 or more</td>
<td>50%</td>
<td>Priority Population Worker</td>
<td>Not Eligible</td>
<td>24 Weeks</td>
</tr>
<tr>
<td>Solar</td>
<td>2 employees or more</td>
<td>50%</td>
<td>Priority Population Worker</td>
<td>Not Eligible</td>
<td>24 Weeks</td>
</tr>
<tr>
<td>Heat Pumps</td>
<td>2 employees or more</td>
<td>75%</td>
<td></td>
<td>16 Weeks</td>
<td>24 Weeks</td>
</tr>
</tbody>
</table>

Funding is capped at $150,000 per business for traditional workers.
No maximum cap for businesses of any size hiring priority populations.

**Average Hourly Rate**

$18.17

**Average Wage Subsidy for 4 – 6 Months**

$7,000
PON 4000
New York State Clean Energy Internship Program
PON 4000 – Clean Energy Internship Program

Goals
• To provide clean energy businesses with a pool of young, skilled professionals, and to provide relevant clean energy career experiences to people entering the workforce.

Program Resources
• $7.5 million available on a first-come, first-served basis.
• Intern wage reimbursement: 75-90% of intern wages, depending on company size.
• Internships: minimum of 8 weeks/80 hours up to 960 hours completed within a 12-month period.
• Businesses can bring their own intern or choose from a directory of interns who apply to the program.
PON 4000 – Clean Energy Internship Program

Eligible businesses must:

- Provide services related to research, manufacture, design, procurement, installation, operation, commissioning, technical sales, in the following areas:
- Have an office in SBC territory

Eligible interns must be:

- A NYS resident attending or having attended any college or university
- An out-of-state student attending or having attended a college or university located in NY
- A 16- to 24-year-old participating in a work preparedness training program, or a veteran, or a member of a priority population
PON 3715
Building Operations and Maintenance Program
Goals
• To train building operations and maintenance (O&M) staff to optimize building energy performance, saving owners money while reducing carbon emissions

Program Resources
• $8 million in funding available to CEF ratepayers statewide
• NYSERDA will provide cost share of up to 50% with a cap of $400,000 per application. Cost share can include cash or in-kind services like employees' wages during training, equipment from manufactures that will be used exclusively for training purposes, training fees offset by a third party, etc.
PON 3715 – Building Operations and Maintenance Program

Eligibility Requirements:

- Facilities that are New York State electricity customers and pay into the System Benefits Charge (SBC)/Clean Energy Fund (CEF)
- Building owners, facility managers, property management companies, business associations/trade groups or training providers may be the lead proposer
- Proposals must be for buildings or groups of buildings with total annual energy expenditures of $1 million or more

Targeted Building Types:

- Multifamily housing
- Office buildings
- Retail
- Educational institutions including colleges/universities and K-12
- Hospitals and healthcare facilities
- State and local governments
- Not-for-profit and private institutions
- Other building types, evaluated on a case-by-case basis
PON 3715 – Building Operations and Maintenance Program

Targeted Systems/Infrastructure:

- HVAC systems, including heat pumps
- Domestic hot water
- Economizer/ventilation controls
- Pneumatic systems
- Building diagnostics
- Building energy management
- Controls
- Other energy consuming systems

Eligible Activities:

- On-site training laboratories
- Curriculum development or revision
- Career pathways training
- Coaching and mentorship
- Apprenticeships and internships
- Training trainers with a company (training partner)
- Partnerships with manufacturers
- Planning for training replicability and sustainability
List of Training Partners

- 32BJ Training Fund
- AKT Engineers
- Association for Energy Affordability (AEA)
- Association of Prestige Management
- Erie Community College (SUNY Erie)
- SUNY Erie
- Erie County
- FS Energy, LLC (Financial Services Energy)
- Solar One
- Steven Winters
- Video Production and Editing Company
- Housing Works
- Solar One
- Interstate Renewable Energy Council (IREC)
- WinnCompanies
- Lefrak Estates LP
- Steven Winters
- Memorial Sloan Kettering Cancer Center
- The Refrigeration Institute
- CUNY Building Performance Lab
- Montefiore
- NYC College of Technology
- Enhanced Building Solutions
- Gotham 350
- The Partnership for Quality Care
- NYS School Facilities Association
- School Facilities Management Institute
- Northwest Energy Efficiency Council
- NYU Medical Center
- EME Consulting Engineering Group
- Onondaga Community College
- Cayuga CC
- Jefferson CC
- Tompkins-Cortland CC
- Sustainable Building Operations Training
- Related Management
- Steven Winters
- CUNY BPL
Current Workforce Funding Opportunities

**NEW** Searchable directory of free clean energy training resources available on NYSERDA Workforce Development Training Page

**PON 3981**
- Energy Efficiency & Clean Technology Training, $4 million, proposal due dates 10-1-20, 1-14-21

**PON 3982**
- On-the-Job Training for Energy Efficiency & Clean Technology, $14 million

**PON 4000**
- New York State Clean Energy Internship Program, $9 million

**PON 3715**
- Workforce Training – Building Operations & Maintenance, $8 million, proposal due dates 11-19-20, 2-25-21, 5-20-21
THANK YOU!

Davetta Thacher
Senior Project Manager
Davetta.Thacher@nyserda.ny.gov
518.862.1090 x3603
Since 1972, Steven Winter Associates, Inc. has been providing research, consulting, and advisory services to improve the built environment for private and public sector clients.

Our services include:

- Energy Conservation and Management
- Sustainability Consulting
- Green Building Certification
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Building Operator Training
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128 Mil. Sqft

918 Buildings

2500 Operators
electrification
Gas Moratoria

- ConEdison moratorium on firm gas in Westchester (15 March 2019)
  - Temporarily ended in late 2019

- National Grid gas moratorium in parts of Brooklyn and Queens (15 May 2019)
  - Temporarily ended in late 2019

- Looking for non-pipeline solutions
NYC Local Law 97
Decarbonizing NYC’s Buildings
Climate Leadership and Community Protection Act (CLCPA)

- **Clean Energy Economy**: Nearly 159,000 clean energy jobs
  - **Now**: 6,000 MW of distributed solar
  - **By 2025**: 1,500 MW of energy storage
  - **Energy Efficiency**: 185 TWh end-use savings in buildings and industrial facilities

- **Renewable Energy**: 70% electricity from renewable energy
  - **By 2030**: 1,000 MW of offshore wind
  - **By 2035**: 3,000 MW of energy storage
  - **By 2040**: 30,000 employed in storage sector

- **Resilient and Distributed Grid**: 1,500 MW of energy storage
  - **By 2025**: 1,500 MW of energy storage

- **Renewable Energy Standard**: 100% clean electricity
  - **By 2035**: 9,000 MW of offshore wind
  - **By 2040**: Carbon-free emissions from 1990 levels
  - **By 2050**: GHG reduction 85% in greenhouse gas emissions from 1990 levels

- **GHG Reduction**: 40% reduction in greenhouse gas emissions from 1990 levels

**Leading the Way On Climate Change**
Carbon Reduction

- Burning conventional fuel = emitting CO2
- Using clean electricity = no CO2 emissions
Health Benefits

- Improved Local Air Quality
- Improved Indoor Air Quality
- Reduced Risk of CO Exposure
Comfort Benefits

- Localized delivery of heating and cooling
- Customizable temperature settings by room or zone
Cost Savings

- Compared to propane and fuel oil
Why SWA?
Research
May 27th We Went Live!
Total Sessions: 43  Total Attendees: 744
Feedback

“I would like to pass on my appreciation to all those involved. This module was a breath of fresh air. Challenging yet gettable. Engaging. Motivating. Impeccably managed. Exceptional speakers. etc...

“It would not be a lie to say my sense of purpose and urgency has been reinvigorated, and for that I am grateful.”

“This was a very good session and I’ve encouraged others at my team to sign up for it as well. Probably the shortest four-hours I’ve had for a course!”
Contact Us

Steven Winter Associates, Inc.
307 7th Ave., New York, NY 10001

Adam Romano
Senior Building Systems Consultant
CEM
aromano@swinter.com
212.564.5800 x1110
www.swinter.com
Questions?
Contact Us

NYSERDA
Davetta Thacher
(518) 862-1090 x3603
Davetta.Thacher@nyserda.ny.gov

Business Council of New York State
Joe Foskett
Director of Government Affairs
Joseph.Foskett@bcnys.org

Steven Winter Associates
Adam Romano, C.E.M
(212) 564-5800 x1110
aromano@swinter.com

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