New Opportunities for Disadvantaged Workers in the New York Green Energy Economy

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NYSERDA

- NYSERDA is a public benefit corporation established in 1975.
- Mission - Advance innovative energy solutions in ways that improve New York’s economy and environment. NYSERDA’s vision is to serve as a catalyst – advancing energy innovation and technology, transforming New York’s economy, empowering people to choose clean and efficient energy as part of their everyday lives.
Outline

- NYS Legislation and Policy
- Funding Landscape
- Workforce Development Program Structure
- Best Practices in Provider Partnerships
- Program Challenges
- Success Stories
NYS Legislation and Policy

- System Benefits Charge (SBC) - $175M/yr
- Renewable Portfolio Standard (RPS) - $98M
- Energy Efficiency Portfolio Standard (EEPS) - $172M
- Green Jobs-Green New York Act (GJGNY) - $112M
NYS Funding Landscape

- **NYSERDA Funding**
  - $8M GJ-GNY
  - $6.6M EEPS

- **OTDA and NYSDOL**
  - $15M Emerging/Transitional Worker
  - $5M Disconnected Youth
  - $17.5M Career Pathways
  - $7M Green Jobs Training

- **Federal Funding for NYS**
  - $123M State Energy Program (SEP)
  - $500M Weatherization Assistance Program (WAP)
  - $175M Energy Efficiency Conservation Block Grants (EECBG)
  - $19M USDOL Energy Training Partnership
  - $20.44M USDOL Pathways Out of Poverty
Workforce Training Funds

**$ Millions**

- **RGGI (GJGNY)**: $8.0
- **SBC CEEBS**: $8.5
- **SBC Renewables**: $6.0
- **EEPS**: $6.6
- **EPF Renewables**: $2.0
- **SBC Commercial/Ind**: $3.0

**Total Funding 2006-2012**: $34.1 million

- **2006-2009 Funding**: $19.5 million
- **2010-2012 Funding**: $14.6 million
WFD Program Structure

1. Outreach and Screening
2. Worker/Job Readiness
3. Energy Efficiency Basic Skills Training
4. Energy Efficiency Technical Training
5. Internships OJT & Job Placement

JOB COACH/ COUNSELOR
Workforce Development and Training

**Labor Supply**
- Individual
- One-Stop Career Center
- DSS Employment Services
- Skills Assessment Services
- Job Match Services

**Unskilled**

**Skilled**

Placement Complete?
Yes
- Career Planning & Training

No
- Unskilled

**Skill**

**Workforce Training**

**Energy Efficiency Occupational Skills Training**
- Certification - BPI
- CEEBS Network
- Trade/Labor- based training and workforce coordination
- Other training partners or agencies

**Infrastructure**
- Accreditation / Certification
- On-the-Job Training
- Curriculum and Schools

**Labor Demand**

**Energy Efficiency Jobs**
- Weatherization Assistance Program
- Green Jobs Green NY
- NYSERDA and Utility Programs

- Installation Helper (Entry-level)
- Installer
- Crew Supervisor
- Building Auditor
- Prod. Coordinator

**Job Referral**
- One-Stop Career Center
- DSS Employment Services
- Skills Assessment Services
- Job Match Services
Workforce Development and Training

**Occupations**
- **Weatherization Technician**
  - Certified Rater
  - HERS - RESNET - BPI
  - Air Sealing Technician, Crew Chief, Supervisor
- **Building Performance Contractor**
  - BPI Energy Auditor
  - Technician Installer
- **Building Services**
  - USGBC LEED AP
  - Building Operations

**Career Pathways**
- **Weatherization**
  - Building Diagnostics
  - Duct Testing and Sealing
- **EE/RE/Retrofits**
  - HVAC Installation
  - Lighting and Controls
  - Solar Installer
- **New Construction**
  - Energy Star 3.0
  - HPwES

**Energy Fundamentals**
- Basic Energy Concepts
- Intro to Green
- Intro to Renewable Energy
- Whole Building Science

**Workforce Entry**
- Basic Math
- Reading/Literacy
- Graphs/Measurement
- Presentation Skills
EE Market – What regional occupations?

- Air-sealing and Insulation Installers
- Building Performance Retrofit Specialists
- Energy Auditors/Home Raters
- Resource Conservation or Energy Efficiency Managers
- Project Managers
- Building Controls Technicians
- HVAC Technicians and Installers
- Compliance Analysts

- Education Providers
  - Technical/Vocational
  - Community Colleges
  - Union Training Centers
  - Industry Training Professional CEU
  - Mfg/Vendor/Employer training

- Typical Certifications:
  - Building Performance Institute (BPI)
  - North American Technician Excellence (NATE)
  - HVAC Excellence
  - HERS
Best Practice: Partnerships

- Osborne Association, Mason Tenders, AEA (Bronx)
  - Basic Construction Skills
  - Building Science Training and Credential through LIUNA
  - On-the-Job Experience with AEA

- Capital Region BOCES and Schenectady CC
  - Basic Math at SCC
  - HVAC Excellence at Capital Region BOCES

- Northeast Parent and Child Society and HVCC
  - Intro to Building Science

Articulation agreements between Community College/BOCES and WIBs and between Basic Skills and Technical Training providers help to connect students to training.
Program Successes

- Contracts with new Training Partners: 30
- Targeted Enrollment : 8800
- Number of Course/Modules Scheduled: 300
- Completed Course/Modules: 50
- Completed National Credentials: 300
- Placed into Internships: 30
- Placed into Employment: 20 (just beginning)
Program Challenges

- Outreach and screening to determine fit
- Articulation Agreements between training organizations can take time
- Building infrastructure requires careful detail in contracting
- Employer commitment to hire requires leap of faith
Student Success Stories: Chris Patak

- 2006 Graduate of Ulster BOCES Photovoltaic Practitioner Institute
- NABCEP Entry Level Certificate of Knowledge: June 2006
- NYSEIA Internship Program: Solar Energy Systems
- Employment: Solar Energy Systems
- Today, Chris is a NYSERDA Eligible Installer
Student Success Stories: Mark Bomba

- Laid off due to business decline after 911
- Attended HVCC for PV installation
- Employed with Alteris Renewables as a top PV sales rep.
Student Success Stories: Ebony Davenport

- Single mother of four, formerly receiving welfare to support her family
- Attended worker readiness and green jobs training
- Now employed in marketing at Rise Engineering and supporting her family
Thank You

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