

New York State Energy Research and Development Authority

nyserderda.org



Job Creation vs. Skill Development:
Preparing the Workforce to Deliver Energy Efficiency

ACEEE Energy Efficiency as a Resource Conference

September 28, 2009

About NYSERDA



- Public Benefit Corporation Established in 1975 by the New York State Legislature
- Funded through the Public Service Commission (PSC)
- Providing financial & technical assistance
- Focus on market transformation
- Forge public/private partnerships with stakeholders

“To identify solutions to New York State’s energy challenges in ways that benefit the State’s economy and environment.”

What We Do



- Research & Development
- Energy Efficiency Programs
- Clean Energy Programs
- Energy Planning & Analysis
- Consumer Outreach & Education
- Workforce Development & Training

WFD & Training Partnerships



Center for Energy Efficiency & Building Science (CEEBS) Network

- Headquartered at Hudson Valley Community College
- \$3 million invested to date
- 10 learning centers statewide and 2-3 more coming online
- 2,200 trained as of May 2009

Courses Offered:

- Building Analyst
- Envelope Professional
- Heating Professional
- Cooling Professional
- HERS Rater
- Multifamily Building Analyst
- Hydronic Heating Design
- Multifamily Building Operator
- Geothermal
- Solar PV
- Solar Hot Water
- Small Wind



WFD & Training Partnerships



- New York State Builder Association Research & Education Foundation (NYSBAREF)
- Building Performance Contractors Association (BPCA)
- New York State Weatherization Director's Association (NYSWADA)
- Building Operator Training & Certification: City University of New York (CUNY)
- Green Building Operations Training: International Union of Operation Engineers Local 94 & Service Employees International Union 32 BJ



NYS EEPS "15 by 15"



- Established by a Public Service Commission order in June 2008
- Goal of a 15% reduction in forecast electricity usage
- Annual investment of \$330 million of ratepayer funds through 2011
- Solicited proposals for efficiency programs from NYSERDA & utilities

- Representatives from 31 organizations
- Identified contribution of workforce development and training to the effectiveness of energy efficiency programs
- Recommended that funding be divided between NYSERDA and community-based organizations and that additional NYSDOL funds be leveraged to support EEPS-workforce efforts
- Submitted report in October 2008 with recommended strategy

Strategy Key Elements



- Comprehensive training Initiatives
- Promoting National Certifications and Standards
- Engaging Disadvantaged Communities and creating career pathways
- Internships and Apprenticeships
- Professional Development & Continuing Education
- Marketing
- Evaluation, Measurement and Verification

Other Initiatives



- PlaNYC: The New York City Green Greater Buildings Plan
- Urban Agenda: Green Collar Jobs Roundtable
- New York City Economic Development Corporation: Green Sector Study
- New York State Department of Labor: Clean Energy Industry Report



THE NEW YORK CITY
GREENER, GREATER
BUILDINGS PLAN



Data Gathering



- Inventory of current and potential trainings offered in NYC and the organizations supporting and running the programs
- Surveys of employers regarding industry growth and staffing needs
- Working groups of experts to identify appropriate skill sets for auditing and retro-commissioning work
- Characterization of the energy efficiency and weatherization clean energy sectors in New York State

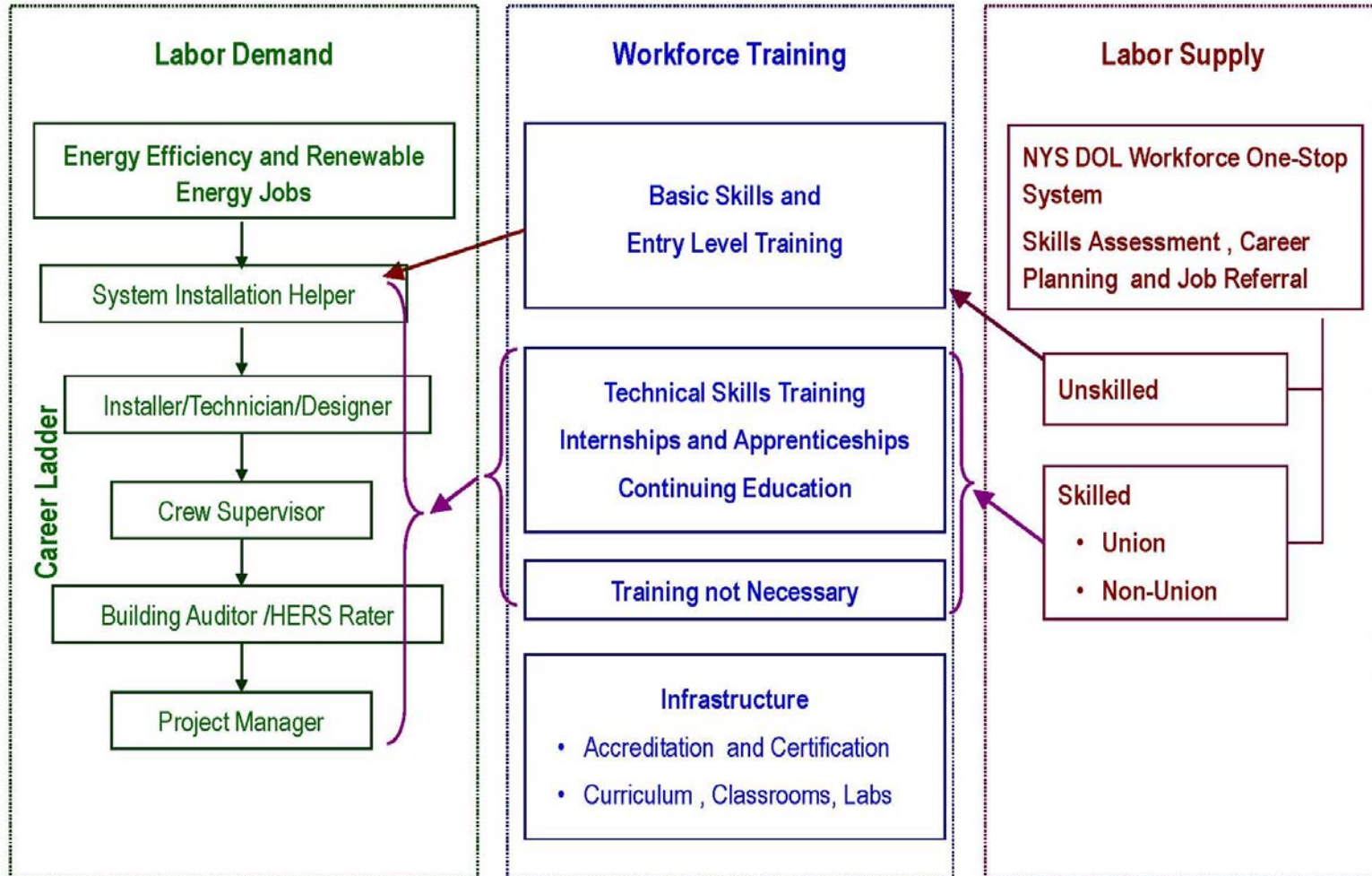
- The need for a large enough pool of skilled workers with experience in related fields
- Shortage of basic skills training to prepare the emerging workforce
- Real need for hands-on and on-the-job experience
- The wide variety of trainings and certifications available in the marketplace

EEPS WFD Strategy



- Expand existing partnerships
- Train-the-Trainer programs
- Online resources
- Create opportunities for on-the-job training through apprenticeships and internships
- Certifications and Professional Development
- Support development of basic skills courses by working with community-based and environmental justice organizations to create career pathways

Training & Career Pathways



- Training Partnership Agreements
- Request for Proposals (RFP) or “Mini Bids” for Existing Training Providers
- Competitive Solicitation for New Training Providers and New Training Initiatives

Ongoing Research



- Quantify skills taught and measured by existing trainings and certifications
- Assess their value in the marketplace
- Understand existing skill gaps
- Assess the need for the development of new trainings or certifications
- Gather data on our firms working within our programs



Websites



www.nyserda.org

www.getenergysmart.com

www.powernaturally.org