



NEEP Summit

March 30, 2010

*"...a major shift to renewable energy and efficiency is expected to produce 2 million new **Green Jobs** during the next decade."*

US Conference of Mayors

William Leahy, Director
Institute for Sustainable Energy
Eastern Connecticut State University
www.sustainenergy.org



Pathways out of Poverty

U.S. DEPARTMENT OF LABOR

Employment and Training Administration American Recovery and Reinvestment Act of 2009

- To fund projects that provide training and placement services to prepare individuals seeking pathways out of poverty for careers
- Training programs will prepare individuals for careers in any of the seven energy efficiency and renewable energy industries

Kick off for “Green-up Bridgeport”

Pathways from Poverty - US Dept of Labor Grant - \$4M



March 29, 2010

Secretary of Labor Hilda Solis

What are Green Collar Jobs?



"Green jobs...help conserve energy, preserve the environment, promote the deployment of new technologies, and contribute to the mission of becoming a more sustainable nation." Apollo Alliance



Why Green-Collar Jobs?

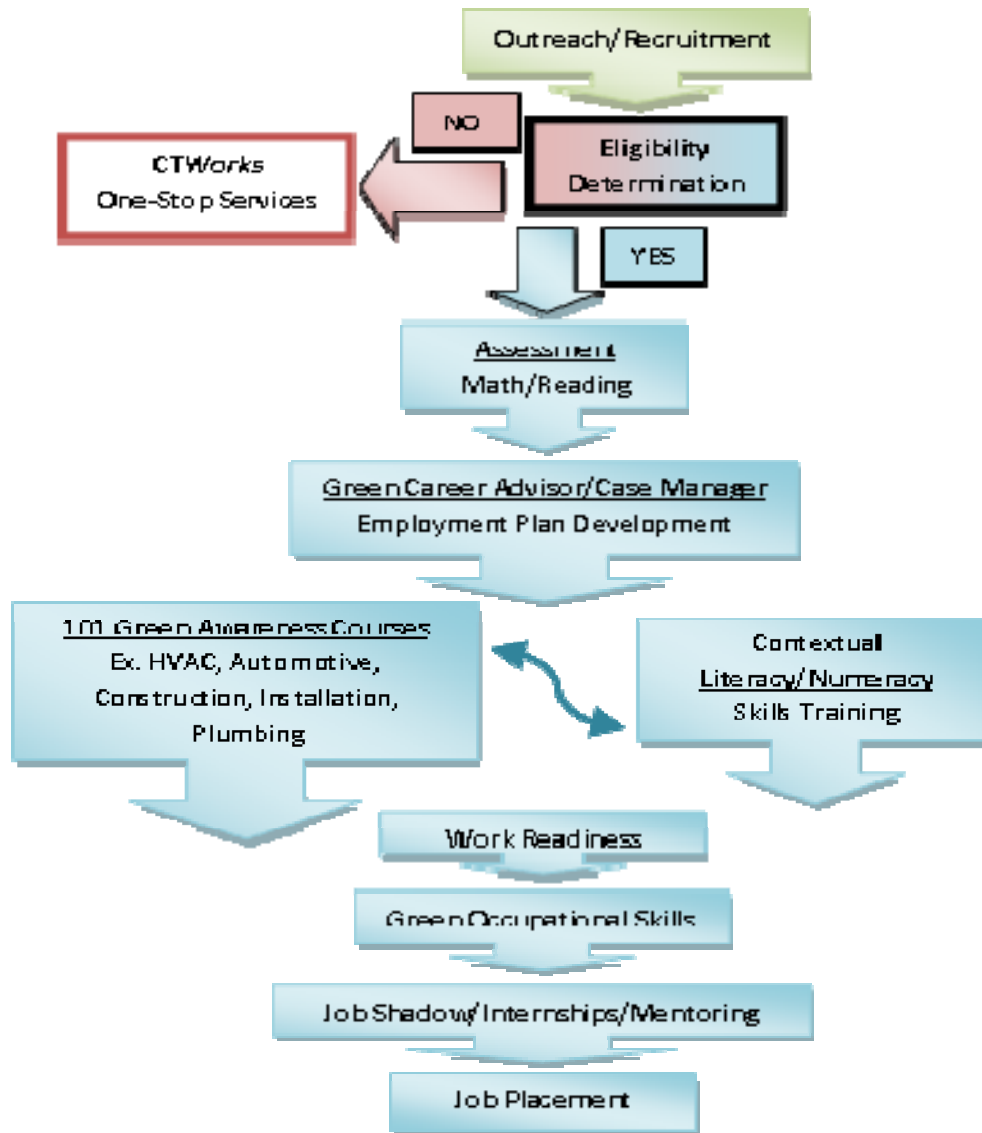
- Creating **new jobs** or **retraining** the unemployed in a time of economic downturn.
- Providing opportunities for **career advancement** in the sustainability fields.
- Lower energy costs and **reduce our dependence on foreign oil**, and strengthening national security.
- Promoting the use of domestic **renewable energy** resources and advanced technologies.
- Reducing the tax burdens of **inefficient public buildings** and public housing.
- Mitigating **pollution and climate change** by cutting emissions including green house gas .

Strategic Partnership

- The **public workforce investment system**, such as local Workforce Investment Boards and their One Stop systems;
- Nonprofit organizations, such as **community or faith-based organizations**, which have direct access to the targeted populations
- The **education and training community**, which includes secondary schools to community colleges, four-year colleges and universities, apprenticeship programs, technical and vocational training institutions.
- **Public and private employers and Labor organizations**, including but not limited to labor unions and labor-management organizations.



Client Flow Chart



Green Survey 101 Core Courses



Building Energy Systems:

- HVAC systems, electricity, plumbing, renewable energy systems



Resource Management:

- drinking water and wastewater, landscaping, rainwater management, recycling and brownfield remediation



Green Construction:

- Green building standards, deconstruction, weatherization, building maintenance and repair



Transportation:

- automotive technology, biofuels production, alternate fuel vehicles

Why Train using Green Collar Job Career Ladders?



- Multiple exploratory experience and options.
- Matches jobs to the participants' interests and abilities.
- Advancement depends on aptitude and development.
- Provides a clear path toward upward mobility.
- Motivates participant to advance to next level.
- Offers starting job with minimal experience & training.
- Provides multiple possibilities for work setting.
- Provides nationally recognized credentials.
- Leads from minimum wage job to **“Family Supporting, Career Directed Sustainable Career.”**

Building Energy Systems Career Ladder



Certified Energy Manager*

Renewable Energy Systems Installer*

Energy Improvement Contractor*

Analyst* & Weatherization Crew Supervisor

HVAC Technician*

Building Maintenance Tech

Weatherization and Envelope Specialist*

Custodian

Resource Management Career Ladder



Urban Garden & Landscape Contractor

Water and Waste Water Tech*

Brownfield Restoration Tech*

Rainwater Runoff Mitigation Tech

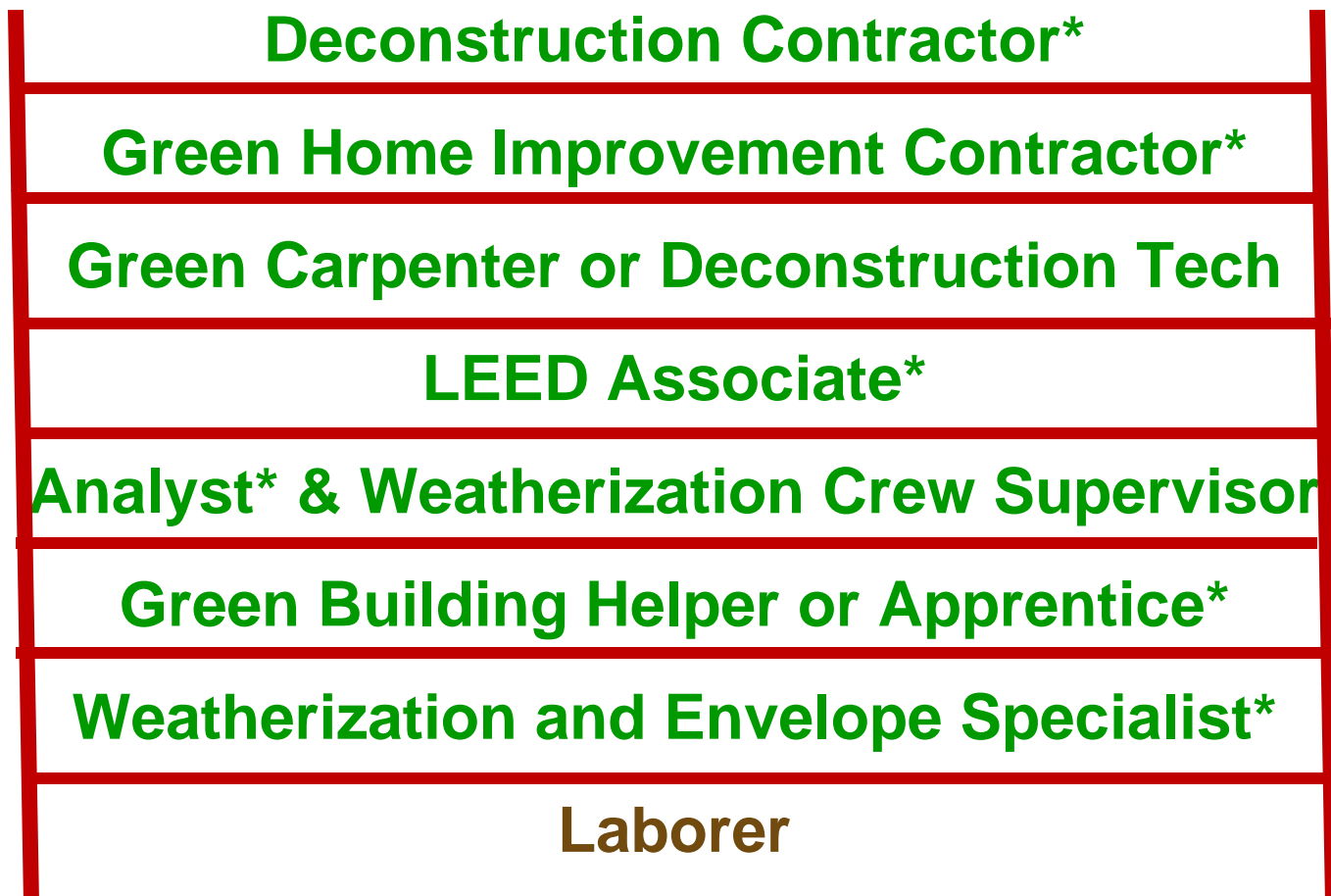
Sustainable Landscape Tech

Community Garden Worker

Recycling Technician

Grounds Maintenance Worker

Green Construction Career Ladder



Transportation Career Ladders



Transit Operations Supervisor

Auto, Truck and Bus Mechanic*(A1-9)

Construction Equipment Service Tech

Biofuel Production Worker

Rail Maintenance Tech

Diesel Retrofit Installer

Mass Transit Service Provider

Under Vehicle Service Tech*

Recognized Credentials

- Building Performance Institute (BPI)



- North American Board of Certified Energy Practitioners



- US Green Building Council
- Association of Energy Engineers
- Environmental Protection Agency



Revitalize Bridgeport

B-Green 2020



- Weatherization, energy efficient retrofits and energy management for existing buildings, green building standards;
- Clean “Green” energy; renewable energy systems (solar photovoltaic, solar thermal, geothermal, small wind, landfill gas, anaerobic digesters), biofuel production, and cogeneration;
- Community farming and urban forestry, sustainable landscaping, waterfront restoration, rainwater run-off management and green roofs;
- Recycling; waste reduction, and single stream separation;
- Deconstruction; recycling of building construction waste, and reuse of building materials;
- Brownfield Remediation; Clean-up abandoned, idle or under used sites, restore value and use or return to tax rolls.
- Pedestrian and bike friendly, mass transit options, auto and bus retrofits for reduced emissions and use of alternative fuels;

People, Planet, Profit

The Intersection of Interests

