



A Growing Green Economy: Opportunities of Tomorrow

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Seattle Jobs Initiative

Creating opportunities for people to support themselves and their families through living wage careers.

Core Program

- ◆ Industry Sector Training
- ◆ Sector Pathways
- ◆ Individualized Placement

Capacity Building

- ◆ Case Management Best Practices and Standards
- ◆ Financial Literacy
- ◆ Other technical assistance

Policy

- ◆ Labor Market Research
- ◆ Industry sectors
- ◆ Career Pathways
- ◆ FSE&T



Overview

- Green Drivers
 - Policy & Legislation
 - Investment & Economic Development
 - Advocacy
 - American Recovery & Reinvestment Act of 2009 (ARRA)
- Advocacy
- Industry Sectors
- Jobs
- Labor Market Challenges
- Recommendations



Green Drivers

- Federal Policy & Legislation for Green Jobs
 - Energy Bill of 2007 - Green Jobs Act
 - Clean Energy Corps (April 2009)
 - Clean Energy Jobs & American Power Act (*introduced*)

- Investment & Economic Development
 - ARRA - \$92B in clean technology
 - \$33B in clean energy
 - \$27B in energy efficiency
 - Private Investment

- Advocacy
 - Green for All; Apollo Alliance; Blue Green Alliance; Green Jobs for America Campaign (Sierra Club)



American Recovery & Reinvestment Act of 2009 (ARRA)

- Workforce Investment Act
 - Additional \$3.6B
- High Growth & Emerging Industry Sector Grants
 - \$750M; \$500M for Green Jobs Act of 2007
- Energy Efficiency & Conservation Block Grants
 - Additional \$3.2B
- Weatherization Assistance Program
 - Additional \$5B
- State Energy Programs
 - Additional \$3.1B
- Department of Energy
 - \$4.4B to update grid; \$100M for Training



Jobs

- Green Jobs:
 - Direct positive impact on the environment
 - Promote environmental protection and/or energy security

- Green-Collar Jobs:
 - Traditionally blue-collar industries
 - Cannot be outsourced
 - In healthy working environments
 - Pay good family-supporting wages
 - Provide opportunities for skill and wage advancement

- Many new jobs, but mostly the old jobs with new skills



Industry Sectors

- Green Building
- Energy Efficiency
- Renewable Energy
- Recycling & Waste Management
- SmartGrid/Smart Energy
- Biofuels/Biomass
- Alternative Transportation
- Sustainable Agriculture

Green Jobs: Examples

- **Green Building**
 - Construction equipment operators
 - Carpenters
 - Roofers
- **Energy Efficiency**
 - Electricians
 - HVAC installers
 - Energy auditors
 - Insulation workers
- **Renewable Energy**
 - Iron and steel workers
 - Sheet metal workers
- **Recycling & Waste Management**
 - Hazardous materials removal workers
 - Waste treatment plant operators



Green Jobs: Examples



- **SmartGrid/Smart Energy**
 - Power engineers
 - Computer technicians
 - Building operators
- **Biofuels/Biomass**
 - Processing technicians
 - Industrial truck drivers
- **Alternative Transportation**
 - Bike repairers
 - Hybrid automotive maintenance technicians
 - Welders
- **Sustainable Agriculture**
 - Organic farm workers
 - Green roof installers



Green Labor Market Demand

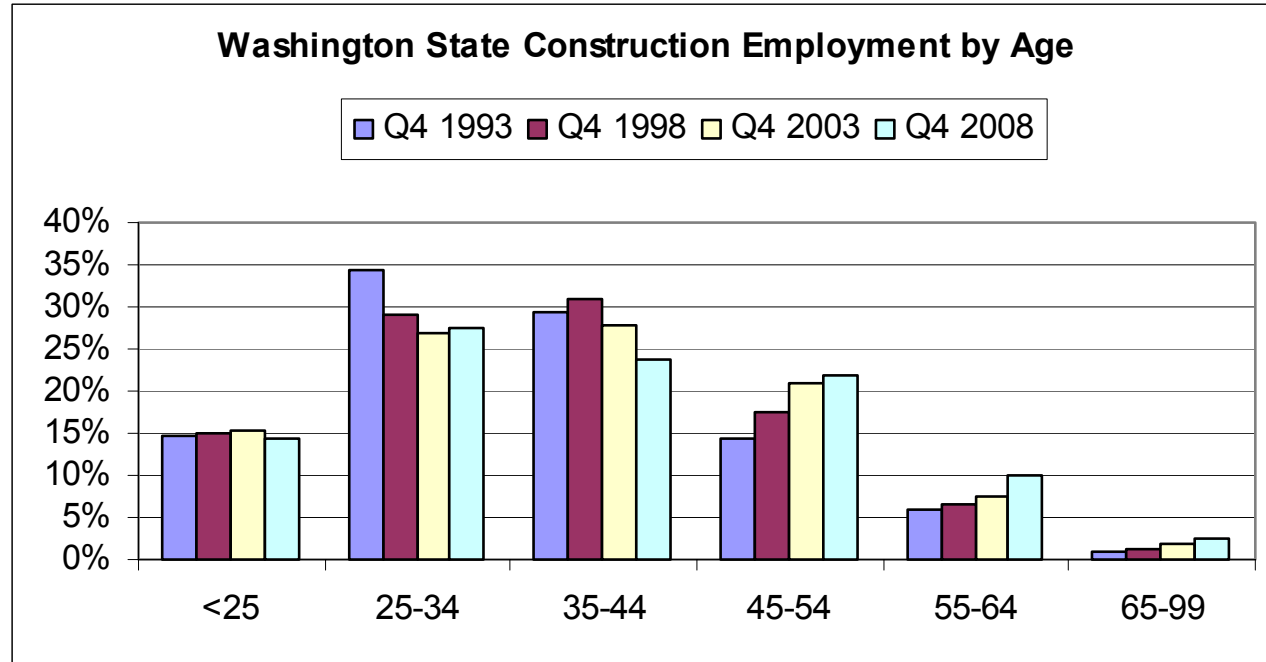
- Job opportunities will continue to grow
- Many of these are middle-skill jobs*

United States	2006-2016
Carpenters	150K+ new jobs
Electricians	52K+ new jobs
Plumbers, Pipefitters, & Steamfitters	53K+ new jobs
HVAC mechanics & installers	25K+ new jobs
Sheet metal workers	13K+ new jobs

Source: Bureau of Labor Statistics

* Middle-skill jobs require more than a HS diploma but not a 4-year degree.

Labor Market Supply



- Despite current economy, long term issues of quantity and quality loom.
 - Labor shortages across traditional blue-collar sectors due to retirements, lack of interest, and lack of needed basic skills.



Recommendations

- **POLICY:**
 - Federal & state legislation – funding and programs
 - Alignment with other strategies
- **ECONOMIC DEVELOPMENT:**
 - Connect w/ industry stakeholders – growing/changing business and workforce needs
- **LABOR MARKET:**
 - Current and future compositional challenges
 - Industry projections
- **TRAINING:**
 - Inventory capacity in existing programs
 - Skills standards as foundation of 'greening' programs
 - Partnerships for successful sectoral strategies



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