

**WASHINGTON STATE  
WORKFORCE TRAINING AND EDUCATION COORDINATING BOARD  
MEETING NO. 153  
MARCH 10, 2011**

**GREEN JOBS**

In 2009, the Legislature passed House Bill 2227, the Evergreen Jobs Act. The bill established the Evergreen Jobs Leadership Team (the Team) that is co-chaired by the Workforce Training and Education Coordinating Board and the Department of Commerce. Joyce Brake will cover the enclosed semiannual report of the Team to the Legislature—overview of state programs fostering green jobs growth and training. Barbara Hins-Turner will cover the green jobs activity at the Pacific Northwest Center of Excellence for Clean Energy.

**Board Action Required:** None. For discussion only.



**Evergreen Jobs Initiative:  
Recovery Act Funds in Washington**

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Report on Performance and Outcomes (RCW 43.330.375)

**March 2011**

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## ACKNOWLEDGEMENTS

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## THE EVERGREEN JOBS LEADERSHIP TEAM

### Evergreen Jobs Leadership Team Co-Chairs:

Daniel Malarkey, Deputy Director, Department of Commerce

Bryan Wilson, Deputy Director, Workforce Training & Education Coordinating Board

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Melinda Nichols, Program Manager, Department of Labor and Industries

Troy Nutter, Training and Procedures Manager - Power Generation, Puget Sound Energy

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## OVERVIEW AND UPDATE

The Evergreen Jobs Initiative is a comprehensive green economy jobs growth effort (RCW 43.330.370). The Department of Commerce (Commerce) and the Workforce Training and Education Coordinating Board (Workforce Board) are required to co-chair and consult with the Evergreen Jobs Leadership Team (the Team) to focus Evergreen Jobs Initiative efforts (RCW 43.330.375). Commerce and the Workforce Board are responsible for coordinating efforts to ensure that federal training and education funds are captured and deployed to support green economy growth. The Evergreen Jobs Leadership Team includes business, labor, education, and government representatives who coordinate workforce and economic development efforts for a green economy and report performance results to the Governor and Legislature.

To launch this effort, Commerce and the Workforce Board procured and deployed federal funds to maximize Washington's ability to train and employ a workforce for the green economy. The Evergreen Jobs Leadership Team's early efforts focused on American Recovery and Reinvestment Act (ARRA) funds for job creation and training in Washington's renewable energy and energy efficiency sectors. This report updates the July 2010 Semiannual Report, which summarized Washington's ARRA and non-Recovery Act funds dedicated to green sector economic development. That report appears on the legislative reports [website](#).

More information on the Evergreen Jobs Leadership Team is available online on the [Workforce Board](#) and [Commerce](#) websites.

### **Summary of Washington's Job Performance in the Greening Economy**

In its first year of activity, the Evergreen Jobs Leadership Team helped define "green" jobs, coordinated state efforts to apply for targeted Recovery Act jobs and job training grants, and tracked the progress of these grant programs as they were implemented throughout the state. With updates since the July 2010 report, the Evergreen Jobs Leadership Team presents the following evidence that Washington has made progress toward the goals of the Evergreen Jobs Initiative:

- The state received over \$27 million in Recovery Act U.S. Department of Labor (DOL) and Department of Energy (DOE) green job training competitive grants.
- Washington received 54 percent of total requested Recovery Act green job competitive grant funds.
- 8,935 Washingtonians will be served through Recovery Act green jobs training and placement.
- 1,418 Washingtonians are currently in training or have been trained through Recovery Act green jobs training.
- The state will use nearly \$67 million in DOE-administered Recovery Act funds for Low-Income Weatherization projects. Of those funds, \$10.4 million will go towards weatherization-related training and technical assistance activities. To date, these funds have weatherized over 8,200 low-income households and have created or retained nearly 200 FTEs per quarter.
- The State Energy Program has invested over \$60 million of federal funds plus additional leveraged funds to accelerate job creation and retention in green sectors, which will create 4,078 jobs (2,386 of which are temporary).

### **Spring 2011 Green Job Grantee Forum**

Since July 2010, the Team has sought to keep Washington at the forefront of the green economy. Now that our state has received more than its per capita share of federal stimulus funds focused on green jobs creation, we must ensure that state and local organizations receive the proper institutional support to most effectively

use those funds and ensure their longevity. The Team is therefore organizing a Spring 2011 Grantee Forum for Recovery Act green job grant recipients. The focus of the forum will be threefold:

- Grantees will be given the opportunity to exchange progress, successes, and any issues they have experienced within their program implementation.
- Grantees will bring best practices to the surface for use within all state programs.
- Grantees and the Evergreen Jobs Leadership Team will take on how to sustain federal stimulus funded projects in the long run.

### **State and Federal Definition of Green Jobs**

In the July 2010 report, we reviewed the state's definition of green jobs to clarify our methods of calculating green job creation. The state has defined green jobs as positions that are directly and predominantly engaged in at least one of four core areas of the economy:

- Increasing energy efficiency
- Producing renewable energy
- Preventing and reducing environmental pollution
- Providing mitigation or cleanup of environmental pollution

This definition was accepted by the Evergreen Jobs Leadership Team and the Employment Security Department.

The federal Bureau of Labor Statistics (BLS) received Fiscal Year 2010 funding to develop and implement a national green jobs survey, which will establish a national definition for green jobs. The BLS green jobs initiative will:

- (1) establish a national number of green jobs and trends for those jobs;
- (2) outline the industrial, occupational, and geographic distribution of the jobs; and
- (3) determine the wages of the workers in these jobs.

Once the national definition is established, the Washington Employment Security Department and the Evergreen Jobs Leadership Team will adopt that definition.

### **RECOVERY ACT GRANTS SECURED FOR GREEN JOBS AND GREEN ECONOMY PROJECTS**

As previously reported, Washington received approximately \$27 million in competitive Recovery Act grants focused on building a strong workforce skilled for the green economy through targeted job training and placement. The U.S. DOL and DOE are the federal administrative agencies for the state's competitive grant Recovery Act funds.

For DOL grants alone, Washington received more than two times its per capita share of available funding, which was \$500 million nationally. For the DOE programs, Washington received more than 10 percent of the national smart grid award total.

The state received DOL funding through seven competitive grants and DOE funding through three competitive grants. A table diagramming all of these Recovery Act programs and their progress is below, followed by more detailed program summaries organized by their fund source.

### Washington's Competitive Green Job Grants Requested and Awarded (as of March 2011)

Federal Agency	Total Recovery Act Applications from Washington	Total Recovery Act Awards in Washington	Total Expected Participants Served
DOL	\$36,172,494	\$15,989,440	7,150
DOE	\$14,348,859	\$11,098,859	1,785
<b>TOTAL</b>	<b>\$50,521,353</b>	<b>\$27,088,299</b>	<b>8,935</b>

Our state also qualified for green job and green economic development Recovery Act funds through formula grants, which are not included in the table of competitive awards on this page. Washington's performance in some formula programs, like the Weatherization Assistance Program, qualified the state for additional performance-based funds. Those funds are not included in the table on this page because they were a competitive incentive within a formula grant.

### Competitive U.S. Department of Labor Recovery Act Grants

Washington's DOL and DOE competitive grants of over \$27 million will serve 8,935 Washingtonians through jobs training and placement. The state received 54 percent of its requested Recovery Act funds. Washington won a grant in each of the five major DOL grant categories.

We reported in July 2010 that most grant recipients were still beginning their programs and services. Six months later, most recipients are still in the initial start-up phases of their programs. Although measurable progress can be seen in training and curriculum development, substantial job placements from these programs remain to be seen. The table and reports below record progress as of January 2011. We will continue to report further outcomes in future reports.

**Department of Labor Recovery Act Grants Won in Washington**

Applicant	Grant Award	Grant Start/End Date	Project Description	Proposed Participants Served	Participants Served to Date	Proposed Participants Placed
Apprenticeship and Nontraditional Employment for Women (ANEW)	\$60,000	12/09 – 5/11	Train women who are low-income, unemployed, veterans, at-risk youth, or have a criminal record	100	89	n/a; capacity building grant
H-CAP, Inc	\$500,000	1/10 – 1/12	Train emerging green occupations in health care	490	80	107 (incumbent workers)
Northwest Energy Efficiency Council	\$3.8 million	2/10 – 1/12	Train and place targeted groups in energy efficiency occupations	675	184	473
Oregon Manufacturing Extension Partnership	\$959,000	1/10 – 12/11	Support renewable energy companies and manufacturers by retooling local workforces	261	90	58
Workforce Development Council of Seattle-King County	\$3.6 million	2/10 – 1/12	Train low-income and unemployed job seekers in deconstruction and materials use, green construction, and sustainable manufacturing	450	107	365
Workforce Training and Education Coordinating Board	\$5.9 million	1/10 – 1/13	Train targeted populations in high demand, professional-technical occupations in commercial and public building energy efficiency	5,174	180	4,771
Employment Security Department	\$1 million	n/a	Create tools and reports that assist job seekers and professionals working to transition people to green jobs	n/a	n/a	n/a

### Building Green Futures Capacity Grants

Green Capacity Building Grants, totaling \$5.8 million nationally, will increase the training capacity of 62 current DOL grant recipients through a variety of strategies, and will offer training opportunities to help individuals acquire jobs in expanding green industries. These grants will help serve underserved communities throughout the country. Targeted communities include American Indians, women, at-risk youth, and farm workers.

**Apprenticeship and Non-traditional Employment for Women (ANEW)** received \$60,000 (Washington's portion of the \$100,000 total awarded to Oregon and Washington) for [Washington Green Capacity Building](#) to train 100 Washington women who are low-income, unemployed, veterans, at-risk youth, or have a criminal record. ANEW partners with veteran organizations and registered apprenticeship partners to expand pre-apprenticeship training and supportive services. For this particular grant, ANEW offers certificates in industrial safety, OSHA training and safety courses, first-aid/CPR, and introduction to green jobs.

Most recently, ANEW has partnered with veterans organizations like the State Department of Veterans Affairs and Helmets to Hardhats to host a Pathways to Apprenticeship meeting in February 2011 to help veterans transition to civilian careers. ANEW will also develop its own trades rotation program with apprenticeships and certificates upon completion. More information on ANEW's recent activities is on its [webpage](#).

**Estimate of workers to be trained:** 100

**Workers trained to date:** 89

**Expected completion rate:** 85 percent

**Expected placement rate:** Not applicable. This is a capacity-building grant.

### Energy Training Partnership Grants

Over \$100 million in Energy Training Partnership Grants will help dislocated workers and others, including veterans, women, African Americans and Latinos, find jobs in expanding green industries and related occupations. Nationally, 25 projects ranging from approximately \$1.4 to \$5 million each will receive grants that are built on strategic business and labor partnerships.

**H-CAP Inc.** was awarded \$500,000 to provide training for workers in King County, Washington to train in [emerging green occupations in health care](#). Nationwide approximately 3,000 job seekers will receive training. Here in Washington, the Service Employees International Union Health Care 1199NW division is developing a curriculum focused on hospital green practices like waste management, recycling, and worker safety. H-CAP will evaluate environmental impact reductions related to energy efficiency and new cleaning methods that will reduce pollution, waste, and water usage.

**Estimate of workers to be trained:** 490

**Workers trained to date:** 80

**Expected placements:** 107 (most training is for incumbent workers)

**The Northwest Energy Efficiency Council** received \$3.87 million from the Department of Labor for the [Sound Energy Efficiency Development project](#) (SEED). SEED will train and place older youth, dislocated

workers, incumbent workers, veterans, women, individuals with disabilities, and others in energy efficiency occupations. The project partners multiple cities, counties, colleges, workforce agencies, labor unions, and others to help recipients earn industry-recognized certificates in residential energy auditing, building operator, and OSHA safety.

In late 2010, SEED expanded its recruitment efforts to ensure training availability to participants in all five counties served by the grant – King, Snohomish, Pierce, Kitsap, and Clallam. The program also added five training programs for a total of eleven programs, all of which can be viewed on the SEED informational [website](#).

**Estimate of workers to be trained:** 675

**Workers trained to date:** 184

**Expected placements:** 473

**Placements to date:** 1

**The Oregon Manufacturing Extension Partnership** was awarded \$959,000 from the Department of Labor to help build a [skilled workforce in Southwest Washington](#) and northwest Oregon (\$5 million total awarded to Oregon and Washington). The project, locally named Renew Northwest, will support renewable energy companies and local manufacturers by retooling the local workforce with new job skills. Credentials include sustainable manufacturing and process manufacturing and sustainability. Additional training and credentials are being determined by employer needs as identified in a 2010 employer assessment.

**Estimate of workers to be trained:** 261 (69 unemployed, 192 incumbent workers)

**Workers trained to date:** 90

**Expected completions:** 241

**Expected placements:** 58

**Expected training-related placements:** 52

### Pathways Out of Poverty Grants

For individuals who are living below or near the poverty level, the current economic downturn has created a unique set of challenges, and has heightened the need to find pathways out of poverty and into employment. These individuals may lack basic literacy and job readiness skills, and they may face other barriers to employment, such as the need for childcare or transportation.

Pathways Out of Poverty grants will integrate training and supportive services into cohesive programs that will help targeted populations find pathways out of poverty and into economic self-sufficiency through employment in energy efficiency and renewable energy industries. Despite the economic downturn, these industries present many potential opportunities for individuals to learn new skills and competencies, gain employment, and advance along career pathways.

These investments will prepare participants for employment within energy efficiency and renewable energy industries and are designed to:

- Include sound recruitment and referral strategies for targeted populations;
- Integrate basic skills and work-readiness training with occupational skills training, as necessary;
- Combine supportive services with training services to help participants overcome barriers to employment, as necessary and;

- Provide training services at times and locations that are easily accessible to targeted populations.

**Workforce Development Council of Seattle-King County** received a \$3.6 million Pathways Out of Poverty grant for the [GreenLight Project](#). The project will train King County low-income and unemployed individuals for jobs in deconstruction and materials use, green construction, and sustainable manufacturing. It brings together the City of Seattle and the King County Housing Authorities, labor organizations, grassroots and community development partners, education and training institutions, the Workforce Development Council of Seattle-King County, and local lawmakers.

The first 14 pre-apprenticeship construction training program students graduated in September of 2010, and most of them are now employed. The project's Introduction to Green Manufacturing program is underway and has a 100 percent retention rate, take away one student who got a job and left the program. Furthermore, the Industry Connection staff work with training and case management agencies to better understand where the green construction and manufacturing jobs are and will be in the future – a task that is pivotal to all Recovery Act grant recipients.

**Estimate of workers to be trained:** 450

**Workers trained to date:** 107

**Expected completions:** 406

**Expected placements:** 365

**Placements to date:** 19

### State Energy Sector Partnership and Training Grants

The Energy Training Partnership grant program will train the workforce to enter the energy efficiency and renewable energy industries, as well as green occupations within other industries. These grants invest in partnerships made up of diverse stakeholders including labor organizations, public or private employers in the energy efficiency and renewable energy industries, and the workforce system. The grantees will utilize these partnerships to design and distribute training approaches that lead to portable industry credentials and employment, including registered apprenticeships. The program targets workers impacted by national energy and environmental policy, individuals in need of updated renewable energy and energy efficiency training, and unemployed workers.

**The Washington State Workforce Training and Education Coordinating Board** received a \$5.9 million [grant](#) from the Department of Labor to provide training for targeted populations in high demand, professional-technical occupations needed for energy efficiency in commercial and public buildings. This training will be targeted to dislocated construction workers, those who want to update their skills to include energy efficient construction, at-risk youth, low-income adults, people with disabilities, and veterans. Apprentices and journey workers in Washington's building and construction trades will receive certifications in green skills, energy management, commercial and residential energy auditing, and photovoltaic installation and design.

The program continues to recruit through electronic flyers to WorkSource users, informational sessions at WorkSource centers, and press releases in local papers. Staff is also keeping a close eye on labor market data and is talking to local employers in an effort to predict where jobs will be available.

**Estimate of workers to be trained:** 5,174 by December 30, 2012

**Workers trained to date:** 180  
**Expected completion rate:** 90 percent  
**Expected placement rate:** 87 percent  
**Placements to date:** 5  
**Expected training-related placement rate:** 86 percent

### Labor Market Improvement Grants

Department of Labor State Labor Market Information Improvement Grants, totaling \$48.8 million nationwide, will support the collection and dissemination of labor market information, and will enhance the labor exchange infrastructure to provide career opportunities within clean energy industries nationwide. Grantees will be able to employ strategies that enable job seekers to connect with green job banks and help ensure that workers find employment after completing training. Thirty awards ranging from about \$763,000 to \$4 million were made to state workforce agencies to utilize data for workforce development strategies. Multiple state workforce agencies partnering as a consortium will use this program to gather information that is likely to have a regional, multi-state or national impact.

**The Employment Security Department** received \$1 million for [Washington State Labor Market Information Improvement](#) to create a set of tools and reports that assist job seekers and professionals working to transition people into jobs in green sectors. Project deliverables will include an enhanced green occupational profile and comparison reports, integrated data services to exchange information with other state systems, enhanced and integrated workforce and economic monitoring and analytical tools, and an online training resource to promote the understanding of workforce and economic concepts and the green economy. The new online tools will make their debut in the Spring of 2011.

**Competitive Department of Energy Smart Grid Grants**

In April 2010, the U.S. Department of Energy announced the award selections for the Recovery Act Smart Grid Workforce Training and Development Grants that will help prepare the next generation of workers in the utility and electrical manufacturing industries.

**Department of Energy Recovery Act Grants Won in Washington**

Applicant	Grant Award	Grant Start/End Date	Project Description	Proposed Participants Served	Participants Served to Date	Proposed Participants Placed
Washington State University	\$2.5 million	8/10 – 7/13	Strengthen B.S., M.S. and PhD degrees specializing in power engineering, create undergraduate and graduate programs in clean energy smart grid engineering	450	Training begins in the second year of the contract	450
Incremental Systems Corporation	\$3.6 million	7/10 – 6/13	Develop real-time training simulations for smart grid operators so that operators, engineers, and students can learn to prevent major power system events	120	81	120
Centralia College Center of Excellence for Energy Technology	\$4.9 million	8/10 – 7/13	Deliver flexible, customized, and accessible training to potential and current employees, including underserved populations	1,215	607	n/a; mostly incumbent workers

**Washington State University** and the University of Washington received \$2.5 million in Recovery Act Smart Grid funding to develop the Northwest Workforce Training Center in Electric Power Engineering. The center will strengthen B.S., M.S. and PhD degrees specializing in power engineering and create undergraduate and graduate programs in clean energy smart grid engineering. Partners include a national laboratory, utilities, business, industry and the Bonneville Power Administration.

**Incremental Systems Corporation** received \$3.6 million in Recovery Act funding. Located in Issaquah, they will develop massive real-time simulations for training smart grid operators. Real-time simulations will be updated with specific and realistic models of the nine North American Electric Reliability Corporation's regions so that system operators, engineers, and students can experience and learn to prevent major power system events. As a demonstration, the simulations will be used to train and certify 120 military veterans as North American Electric Reliability Corporation's system operators and place them in energy industry jobs.

**The Centralia College Center of Excellence for Energy Technology Program** received \$4.9 million in Recovery Act funding and will become the Pacific Northwest Regional Center of Excellence for Clean Energy. A comprehensive online training center will implement and deliver flexible, customized, and accessible training to potential and current employees, including underserved populations. Partners include consumer and investor-owned utilities; Bonneville Power Administration; organized labor; Pacific Northwest National Laboratory; and other private sector companies and colleges and universities in Washington, Oregon, Idaho, and Montana.

### **Recovery Act Formula Funds**

#### **The Low-Income Weatherization Assistance Program**

Washington received \$59.5 million for Low-Income Weatherization funded through the Recovery Act and administered by the Department of Energy. A \$10.4 million portion of that funding will support weatherization-related Training and Technical Assistance activities. Washington's weatherization program incorporates the following fields: energy and resource conservation; energy efficiency improvements; weatherization-related repairs; indoor air quality improvements; health and safety improvements; and client conservation education. Through September of 2010, weatherization service providers have logged over 16,000 hours of training in these job categories. As of December 17, nearly 8,200 low-income households have been weatherized with the use of Recovery Act funding and nearly 200 FTEs have been retained or created each quarter.

In August of 2010, Commerce won \$7 million additional Department of Energy Recovery Act funds to complement and expand the existing Weatherization Assistance Program. States with high performing weatherization programs qualified to compete for this additional Sustainable Energy Resources for Consumers (SERC) funding. Commerce will administer the SERC awards through 11 local weatherization contractors. The contractors will install renewable energy systems and cutting-edge energy efficiency technologies in homes to help families save more on their energy bills. Examples of sustainable energy systems that qualify for the SERC funds include solar heating systems, solar photovoltaic panels, insulation technologies, high-efficiency appliances, tankless hot water systems, high-efficiency combination boilers for

hot water and heat, and ductless heat pump systems. Local Weatherization Assistance Program contractors will complete an estimated 915 units with SERC funds.

### **The State Energy Program**

Since October 2009, 39 out of 174 applicants have been awarded funding under the State Energy Program's push to accelerate green job creation and retention in a growing green economy. Through this Recovery Act program, the U.S. Department of Energy allocated \$60.9 million to the state for loans and grants. To date, we estimate 4,078 jobs will be created, approximately 2,386 of which are temporary jobs. Most Recovery Act grant and loan projects are required by Commerce to leverage at least a one-to-one match in funding. All contracts were in place by the end of September 2010, and all of the funds will be spent by April 2012.

Below are several examples of how State Energy Program funding has been put to use to retain and create jobs, expand Washington's green infrastructure and create effective and efficient ways to generate economic prosperity:

- Renewal Energy Composite Solutions, LLC in Clark County received a \$1 million grant to switch a portion of a boat manufacturing plant to small wind turbine production. This project will create 101 permanent and 99 temporary jobs and leverage \$5 million in additional funding.
- Barr-Tech, LLC in Lincoln County received a \$1.5 million loan and a \$500,000 grant for an anaerobic digester to process local food waste. The project will create 117 permanent and 41 temporary jobs and is expected to leverage \$9.7 million in additional funding.
- GR Silicate Nanofibers and Carbonates in King County received a \$1.4 million loan for the use of nano-materials to reduce greenhouse gas emissions by capturing carbon dioxide gas from the Grays Harbor Paper flue and converting it to calcium carbonate for use in paper. This project will create 15 permanent and 280 temporary jobs and leverage \$5 million in additional funding.

For a full listing of projects, visit Commerce's ARRA [Webpage](#) hosted by Washington State University Extension Energy Program.

### **Other Funding Sources for Jobs in the Green Economy**

The Recovery Act was the primary focus of the Evergreen Jobs Leadership Team's efforts this last year, in accordance with the Evergreen Jobs Act. This section includes examples of new non-Recovery Act funds for jobs and economic development in green sectors that have occurred in the last year.

#### **Energy Efficiency Jobs in Schools and Jobs Referendums in Washington**

During the 2010 Legislative Session the supplemental capital budget included \$100 million for energy cost savings grants in public schools and higher education facilities. Commerce coordinated \$50 million of the competitive Jobs Act for Public K-12 and Higher Education grants. The immediate goal of the funds is to create jobs; the long-term goal is to reduce the energy costs at state education facilities. The Superintendent of Public Instruction awarded the other \$50 million for performance-based contracts at school facilities that will deliver operational cost savings to school facilities. More information on the outcomes of those programs will be included in future reports.

In 2010, the Legislature also authorized a referendum that would have authorized \$500 million in state bonds to pay for energy-efficiency projects in state buildings (EHB 2651, Laws of 2010, ch. 35). If it had been ratified, it would have promoted job creation by authorizing bonds to construct energy efficiency savings improvements to schools, including higher education buildings. The measure would have created an estimated 38,000 jobs and saved \$190 million in energy costs.

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