



OREGON WORKFORCE INVESTMENT BOARD

October 15, 2009

US Department of Labor
Employment and Training Administration, Division of Federal Assistance
Attention: B. Jai Johnson, Grant Officer, Reference SGA/DFA PY 08-20
200 Constitution Avenue, NW, Room N4716
Washington DC 20210

Dear Proposal Reviewers,

Thank you for the opportunity to submit this State Energy Sector Partnership proposal. We are very excited about this project, and eager to work with the U.S. Department of Labor to get it underway.

Oregon is recognized internationally as a leader in renewable energy, clean technology, sustainable building practices, environmental laws, cutting-edge mass transit systems, and for our overall 'green' lifestyle. We are focused on creating dramatic economic growth featuring family wage jobs in renewable energy and energy efficiency. This **Greening of Oregon's Workforce** project, submitted by the Oregon Workforce Investment Board (OWIB) develops local networks of training in green occupations within a long-standing statewide energy sector strategy guiding economic growth.

The **Greening of Oregon's Workforce** project starts with strong state-level commitments to renewable energy and green building practices that support job creation and build a demand for workers in these areas. The state Green Jobs Council, and the developing Green Jobs Networks of Excellence, provide a framework for maximizing green jobs training and employment opportunities. Each local community identified areas of need and opportunity for training specific to their community, based on their particular mix of existing workforce skills and employment opportunities. The training ranges along the continuum from short-term training to degrees. Through this comprehensive strategy, we will increase access and workforce readiness for green jobs participation in communities across the state, which in turn will help provide a sound basis for growing the green economy.

Please contact me if I can provide any additional information about this project.

Sincerely,

A handwritten signature in blue ink that reads "Greg White".

Greg White
Executive Staff
Oregon Workforce Investment Board



Application for Federal Assistance SF-424

Version 02

*1. Type of Submission: <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application	*2. Type of Application * If Revision, select appropriate letter(s) <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision	*Other (Specify) _____
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3. Date Received:	4. Applicant Identifier:
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5a. Federal Entity Identifier:	*5b. Federal Award Identifier:
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State Use Only:

6. Date Received by State:	7. State Application Identifier:
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8. APPLICANT INFORMATION:

*a. Legal Name: State of Oregon	
*b. Employer/Taxpayer Identification Number (EIN/TIN): 93-1063472	*c. Organizational DUNS: 022381813

d. Address:

*Street 1:	<u>255 Capitol Street, NE, Third Floor</u>
Street 2:	_____
*City:	<u>Salem</u>
County:	<u>Marion</u>
*State:	<u>Oregon</u>
Province:	_____
*Country:	<u>U.S.A.</u>
*Zip / Postal Code	<u>97310-1341</u>

e. Organizational Unit:

Department Name: Department of Community Colleges and Workforce Development	Division Name: Oregon Workforce Investment Board
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f. Name and contact information of person to be contacted on matters involving this application:

Prefix: <u>Mr.</u>	*First Name: <u>Gregory</u>
Middle Name: _____	
*Last Name: <u>White</u>	
Suffix: _____	

Title: <u>Executive Staff</u>

Organizational Affiliation:

*Telephone Number: (503) 947-2451	Fax Number: (503) 378-3365
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*Email: <u>greg.white@state.or.us</u>
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Application for Federal Assistance SF-424

Version 02

***9. Type of Applicant 1: Select Applicant Type:**

A.State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

*Other (Specify)

***10 Name of Federal Agency:**

U.S. Department of Labor, Employment and Training Administration

11. Catalog of Federal Domestic Assistance Number:

17.275 _____

CFDA Title:

ARRA: State Energy Sector Partnership (SESP) and Training Grants _____

***12 Funding Opportunity Number:**

SGA/DFA PY-08-20 _____

*Title:

ARRA: State Energy Sector Partnership (SESP) and Training Grants _____

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

State of Oregon

***15. Descriptive Title of Applicant's Project:**

Oregon's State Energy Sector Partnership's Greening of Oregon's Workforce training and job placement project

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16. Congressional Districts Of:

*a. Applicant: 1,2,3,4,5

*b. Program/Project: 1,2,3,4,5

17. Proposed Project:

*a. Start Date: January 1, 2010

*b. End Date: December 31, 2012

18. Estimated Funding (\$):

*a. Federal	_____	5,383,568
*b. Applicant	_____	
*c. State	_____	
*d. Local	_____	
*e. Other	_____	
*f. Program Income	_____	
*g. TOTAL	_____	5,383,568

***19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

- a. This application was made available to the State under the Executive Order 12372 Process for review on _____
- b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- c. Program is not covered by E. O. 12372

***20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)**

- Yes No

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U. S. Code, Title 218, Section 1001)

** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions

Authorized Representative:

Prefix: Ms. *First Name: Camille

Middle Name: _____

*Last Name: Preus

Suffix: _____

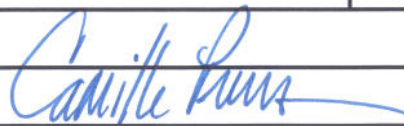
*Title: Commissioner

*Telephone Number: (503) 947-2433

Fax Number: (503) 378-3665

* Email: camille.preus@state.org.us

*Signature of Authorized Representative:



*Date Signed:

10/15/09

Application for Federal Assistance SF-424

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***Applicant Federal Debt Delinquency Explanation**

The following should contain an explanation if the Applicant organization is delinquent of any Federal Debt.

INSTRUCTIONS FOR THE SF-424

Public reporting burden for this collection of information is estimated to average 80 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0043), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

This is a standard form (including the continuation sheet) required for use as a cover sheet for submission of preapplications and applications and related information under discretionary programs. Some of the items are required and some are optional at the discretion of the applicant or the Federal agency (agency). Required items are identified with an asterisk on the form and are specified in the instructions below. In addition to the instructions provided below, applicants must consult agency instructions to determine specific requirements.

Item	Entry:	Item	Entry:
1.	Type of Submission: (Required): Select one type of submission in accordance with agency instructions. <ul style="list-style-type: none"> • Preapplication • Application • Changed/Corrected Application – If requested by the agency, check if this submission is to change or correct a previously submitted application. Unless requested by the agency, applicants may not use this to submit changes after the closing date. 	10.	Name Of Federal Agency: (Required) Enter the name of the Federal agency from which assistance is being requested with this application.
		11.	Catalog Of Federal Domestic Assistance Number/Title: Enter the Catalog of Federal Domestic Assistance number and title of the program under which assistance is requested, as found in the program announcement, if applicable.
2.	Type of Application: (Required) Select one type of application in accordance with agency instructions. <ul style="list-style-type: none"> • New – An application that is being submitted to an agency for the first time. • Continuation - An extension for an additional funding/budget period for a project with a projected completion date. This can include renewals. • Revision - Any change in the Federal Government's financial obligation or contingent liability from an existing obligation. If a revision, enter the appropriate letter(s). More than one may be selected. If "Other" is selected, please specify in text box provided. A. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration E. Other (specify) 	12.	Funding Opportunity Number/Title: (Required) Enter the Funding Opportunity Number and title of the opportunity under which assistance is requested, as found in the program announcement.
		13.	Competition Identification Number/Title: Enter the Competition Identification Number and title of the competition under which assistance is requested, if applicable.
		14.	Areas Affected By Project: List the areas or entities using the categories (e.g., cities, counties, states, etc.) specified in agency instructions. Use the continuation sheet to enter additional areas, if needed.
3.	Date Received: Leave this field blank. This date will be assigned by the Federal agency.	15.	Descriptive Title of Applicant's Project: (Required) Enter a brief descriptive title of the project. If appropriate, attach a map showing project location (e.g., construction or real property projects). For preapplications, attach a summary description of the project.
4.	Applicant Identifier: Enter the entity identifier assigned by the Federal agency, if any, or applicant's control number, if applicable.	16.	Congressional Districts Of: (Required) 16a. Enter the applicant's Congressional District, and 16b. Enter all District(s) affected by the program or project. Enter in the format: 2 characters State Abbreviation – 3 characters District Number, e.g., CA-005 for California 5 th district, CA-012 for California 12 th district, NC-103 for North Carolina's 103 rd district. <ul style="list-style-type: none"> • If all congressional districts in a state are affected, enter "all" for the district number, e.g., MD-all for all congressional districts in Maryland. • If nationwide, i.e. all districts within all states are affected, enter US-all. • If the program/project is outside the US, enter 00-000.
5a.	Federal Entity Identifier: Enter the number assigned to your organization by the Federal Agency, if any.		
5b.	Federal Award Identifier: For new applications leave blank. For a continuation or revision to an existing award, enter the previously assigned Federal award identifier number. If a changed/corrected application, enter the Federal Identifier in accordance with agency instructions.		
6.	Date Received by State: Leave this field blank. This date will be assigned by the State, if applicable.		
7.	State Application Identifier: Leave this field blank. This identifier will be assigned by the State, if applicable.		
8.	Applicant Information: Enter the following in accordance with agency instructions:	17.	Proposed Project Start and End Dates: (Required) Enter the proposed start date and end date of the project.
a.	Legal Name: (Required): Enter the legal name of applicant that will undertake the assistance activity. This is the name that the organization has registered with the Central Contractor Registry. Information on registering with CCR may be obtained by visiting the Grants.gov website.		
b.	Employer/Taxpayer Number (EIN/TIN): (Required): Enter the Employer or Taxpayer Identification Number (EIN or TIN) as assigned by the Internal Revenue Service. If your organization is not in the US, enter 44-4444444.		
c.	Organizational DUNS: (Required) Enter the organization's DUNS or DUNS+4 number received from Dun and Bradstreet. Information on obtaining a DUNS number may be obtained by visiting the Grants.gov website.		
d.	Address: Enter the complete address as follows: Street address (Line 1 required), City (Required), County, State (Required, if country is US), Province, Country (Required), Zip/Postal Code (Required, if country is US).		
e.	Organizational Unit: Enter the name of the primary organizational unit (and department or division, if applicable) that will undertake the	18.	Estimated Funding: (Required) Enter the amount requested or to be contributed during the first funding/budget period by each contributor. Value of in-kind contributions should be included on appropriate lines, as applicable. If the action will result in a dollar change to an existing award, indicate only the amount of the change. For decreases, enclose the amounts in parentheses.
		19.	Is Application Subject to Review by State Under Executive Order 12372 Process? Applicants should contact the State Single Point of Contact (SPOC) for Federal Executive Order 12372 to determine whether the application is subject to the

	<p>assistance activity, if applicable.</p> <p>f. Name and contact information of person to be contacted on matters involving this application: Enter the name (First and last name required), organizational affiliation (if affiliated with an organization other than the applicant organization), telephone number (Required), fax number, and email address (Required) of the person to contact on matters related to this application.</p>	<p>State intergovernmental review process. Select the appropriate box. If "a." is selected, enter the date the application was submitted to the State</p>		
		<p>20. Is the Applicant Delinquent on any Federal Debt? (Required) Select the appropriate box. This question applies to the applicant organization, not the person who signs as the authorized representative. Categories of debt include delinquent audit disallowances, loans and taxes.</p> <p>If yes, include an explanation on the continuation sheet.</p>		
<p>9.</p>	<p>Type of Applicant: (Required) Select up to three applicant type(s) in accordance with agency instructions.</p> <table border="0"> <tr> <td data-bbox="191 604 532 974"> <p>A. State Government</p> <p>B. County Government</p> <p>C. City or Township Government</p> <p>D. Special District Government</p> <p>E. Regional Organization</p> <p>F. U.S. Territory or Possession</p> <p>G. Independent School District</p> <p>H. Public/State Controlled Institution of Higher Education</p> <p>I. Indian/Native American Tribal Government (Federally Recognized)</p> <p>J. Indian/Native American Tribal Government (Other than Federally Recognized)</p> <p>K. Indian/Native American Tribally Designated Organization</p> <p>L. Public/Indian Housing Authority</p> </td> <td data-bbox="532 604 873 974"> <p>M. Nonprofit with 501C3 IRS Status (Other than Institution of Higher Education)</p> <p>N. Nonprofit without 501C3 IRS Status (Other than Institution of Higher Education)</p> <p>O. Private Institution of Higher Education</p> <p>P. Individual</p> <p>Q. For-Profit Organization (Other than Small Business)</p> <p>R. Small Business</p> <p>S. Hispanic-serving Institution</p> <p>T. Historically Black Colleges and Universities (HBCUs)</p> <p>U. Tribally Controlled Colleges and Universities (TCCUs)</p> <p>V. Alaska Native and Native Hawaiian Serving Institutions</p> <p>W. Non-domestic (non-US) Entity</p> <p>X. Other (specify)</p> </td> </tr> </table>	<p>A. State Government</p> <p>B. County Government</p> <p>C. City or Township Government</p> <p>D. Special District Government</p> <p>E. Regional Organization</p> <p>F. U.S. Territory or Possession</p> <p>G. Independent School District</p> <p>H. Public/State Controlled Institution of Higher Education</p> <p>I. Indian/Native American Tribal Government (Federally Recognized)</p> <p>J. Indian/Native American Tribal Government (Other than Federally Recognized)</p> <p>K. Indian/Native American Tribally Designated Organization</p> <p>L. Public/Indian Housing Authority</p>	<p>M. Nonprofit with 501C3 IRS Status (Other than Institution of Higher Education)</p> <p>N. Nonprofit without 501C3 IRS Status (Other than Institution of Higher Education)</p> <p>O. Private Institution of Higher Education</p> <p>P. Individual</p> <p>Q. For-Profit Organization (Other than Small Business)</p> <p>R. Small Business</p> <p>S. Hispanic-serving Institution</p> <p>T. Historically Black Colleges and Universities (HBCUs)</p> <p>U. Tribally Controlled Colleges and Universities (TCCUs)</p> <p>V. Alaska Native and Native Hawaiian Serving Institutions</p> <p>W. Non-domestic (non-US) Entity</p> <p>X. Other (specify)</p>	<p>21. Authorized Representative: (Required) To be signed and dated by the authorized representative of the applicant organization. Enter the name (First and last name required) title (Required), telephone number (Required), fax number, and email address (Required) of the person authorized to sign for the applicant.</p> <p>A copy of the governing body's authorization for you to sign this application as the official representative must be on file in the applicant's office. (Certain Federal agencies may require that this authorization be submitted as part of the application.)</p>
<p>A. State Government</p> <p>B. County Government</p> <p>C. City or Township Government</p> <p>D. Special District Government</p> <p>E. Regional Organization</p> <p>F. U.S. Territory or Possession</p> <p>G. Independent School District</p> <p>H. Public/State Controlled Institution of Higher Education</p> <p>I. Indian/Native American Tribal Government (Federally Recognized)</p> <p>J. Indian/Native American Tribal Government (Other than Federally Recognized)</p> <p>K. Indian/Native American Tribally Designated Organization</p> <p>L. Public/Indian Housing Authority</p>	<p>M. Nonprofit with 501C3 IRS Status (Other than Institution of Higher Education)</p> <p>N. Nonprofit without 501C3 IRS Status (Other than Institution of Higher Education)</p> <p>O. Private Institution of Higher Education</p> <p>P. Individual</p> <p>Q. For-Profit Organization (Other than Small Business)</p> <p>R. Small Business</p> <p>S. Hispanic-serving Institution</p> <p>T. Historically Black Colleges and Universities (HBCUs)</p> <p>U. Tribally Controlled Colleges and Universities (TCCUs)</p> <p>V. Alaska Native and Native Hawaiian Serving Institutions</p> <p>W. Non-domestic (non-US) Entity</p> <p>X. Other (specify)</p>			

BUDGET INFORMATION - Non-Construction Programs

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. SESP	17.275	\$	\$	\$ 5,383,568.00	\$	\$ 5,383,568.00
2.						0.00
3.						0.00
4.						0.00
5. Totals		\$ 0.00	\$ 0.00	\$ 5,383,568.00	\$ 0.00	\$ 5,383,568.00

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	SESP	(2)	(3)	
a. Personnel	\$	161,856.00	\$	\$	\$ 161,856.00
b. Fringe Benefits		67,968.00			67,968.00
c. Travel		21,000.00			21,000.00
d. Equipment					0.00
e. Supplies		23,180.00			23,180.00
f. Contractual		4,948,057.00			4,948,057.00
g. Construction					0.00
h. Other		161,507.00			161,507.00
i. Total Direct Charges (sum of 6a-6h)		5,383,568.00	0.00	0.00	5,383,568.00
j. Indirect Charges					0.00
k. TOTALS (sum of 6i and 6j)	\$	5,383,568.00	\$	0.00	\$ 5,383,568.00
7. Program Income	\$		\$	\$	\$ 0.00

Authorized for Local Reproduction

SECTION C - NON-FEDERAL RESOURCES

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS
8. SESP	\$	\$	\$	\$ 0.00
9.				0.00
10.				0.00
11.				0.00
12. TOTAL (sum of lines 8-11)	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

SECTION D - FORECASTED CASH NEEDS

	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 1,794,523.00	\$ 448,631.00	\$ 448,631.00	\$ 448,631.00	\$ 448,630.00
14. Non-Federal	0.00				
15. TOTAL (sum of lines 13 and 14)	\$ 1,794,523.00	\$ 448,631.00	\$ 448,631.00	\$ 448,631.00	\$ 448,630.00

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT

(a) Grant Program	FUTURE FUNDING PERIODS (Years)			
	(b) First	(c) Second	(d) Third	(e) Fourth
16. SESP	\$ 1,794,523.00	\$ 1,794,522.00		
17.				
18.				
19.				
20. TOTAL (sum of lines 16-19)	\$ 1,794,523.00	\$ 1,794,522.00	\$ 0.00	\$ 0.00

SECTION F - OTHER BUDGET INFORMATION

21. Direct Charges: 5,383,568	22. Indirect Charges:
23. Remarks:	

Greening of Oregon's Workforce

Budget Narrative and Justification

Personnel: \$161,856

Oregon SESP Coordinator at \$161,856: Based on 1.0 FTE OPA3 level, at \$4,495 per month or \$53,940 annually, for three years. The Oregon SESP Coordinator will provide general grant oversight, manage project implementation including coordination with local teams, assure timelines and deliverables are met, and assure project reporting.

Fringe: \$67,968

Based on Employment Relations Board, PERS (retirement); FICA; Workers Compensation; and Flexible Benefits.

Travel: \$21,000

Based on annual estimated costs of \$400 per month for in state travel among Local Project Team and per diem for overnight stays, and \$2,200 for two annual trips for grant related training or meetings.

Supplies: \$23,180

Based on estimated costs of \$6,512 for one time costs including a desk, chair, and similar expenses.

Based on estimated costs of \$16,668 for office expenses, facilities, supplies, and similar items at \$463 per month.

Contractual: \$4,948,057

Portland metro area Local Team (Worksystems): \$652,700 for individuals to complete AAS degrees and certificates and obtain employment in renewable electric power, sustainable manufacturing, and energy efficiency industries.

- Scholarships to complete AAS degrees: \$360,000 (100 people @ 40 credits @ \$75/credit plus books@\$600 for 2 terms)
- OIT internships with industry partners: \$150,000 (15 internships @\$10,000 ea to enhance job placement)
- Coordination (WSI, OIT, PCC and MHCC): \$ 100,000
- Administration 7% (WSI): \$ 42,700
- Total: \$652,700

Salem metro area Local Team (Enterprise for Employment and Education): \$650,000 for dislocated and incumbent workers to gain certificates and AAS degrees in green process technology, wind technology, photovoltaic technology and advanced green manufacturing technology.

- Salary: \$113,591
- Fringe: \$36,349
- Training: \$405,616
- Admin: \$38,889
- Indirect: 55,555

Linn-Benton-Lincoln counties Local Team (Community Services Consortium): \$450,000 for dislocated workers and youth seeking pathways out of poverty to enter employment in the weatherization and home retrofit industries.

- Personnel Salaries: \$157,983
 - Weatherization Construction Trainer: 1FTE for 28 months
 - Operations Manager: 0.1FTE for 36 months
 - Weatherization Project Instructor: 1FTE for 36 months
- Personnel Fringe: \$61,613
- Equipment: \$18,750
- Supplies: \$32,812
- Certifications: \$31,500
- Training Center Rent & Utilities: \$54,342
- Travel/Transportation: \$15,000
- Indirect: \$31,500
- Other: \$15,000
- Administration: \$31,500

Lane County Local Team: \$423,536 for dislocated workers who have a background in manufacturing, construction, and high-tech into a customized and accelerated AAS program in energy management.

- Tuition, Books and Fees: \$100,000
- 1 FTE Instructor, Lane Community College: \$195,187
- Adjunct Instructors cost: \$27,673
- 0.25 FTE Clerical Support, Lane Community College \$39,803
- Workforce Investment Board Co-Lead: \$33,230
- Lane Workforce Partnership Overhead: \$27,643

Rogue Valley Local Team: \$12,995 for electricians to become certified solar grid installers.

- Trainer Costs: \$3,900
- Textbooks: \$1,650
- Workbooks: \$510
- Communications: \$50
- Classroom Space: \$300
- NABCEP Certification: \$300
- Classroom Equipment Usage: \$4,500
- Project Mgmt. and Coordination: \$1,000
- Administration: \$785

Clackamas County Local Team: \$272,224 for unemployed construction and other workers to gain the green skills needed to perform weatherization and retrofits.

- Personnel: \$121,587
- Fringe: \$46,203
- Travel: \$10,000
- Supplies: \$10,000
- Contractual (for training delivery): \$66,625
- Administrative: \$17,809

Rural Oregon Local Team (Oregon Workforce Alliance): \$2,486,602 to develop the Oregon Green Technician Certificate program to be delivered in Oregon’s community colleges and to train unemployed workers and other eligible individuals to become technicians in a wide range of renewable energy and energy efficiency industries and their supply chain manufacturers.

Instructional capacity @ 9 CCs	\$1,575,000.00	(\$58,333*3yrs*9CC)
Equipment for Training	\$ 300,000.00	
Training - Scholarships	\$ 189,000.00	(42 people*\$4,500)
OJTs (30 participants @ \$4K/ea)	\$ 120,000.00	
Coordination (TOC/UCC)	\$ 101,927.50	
Material & Supplies	\$ 30,000.00	meeting expense and misc.
Marketing of Program	\$ 8,000.00	
Subtotal	\$2,323,927.50	
Administration	\$ 162,675.00	

Administration: \$161,507

Based on 3% of total grant costs for project administration, including performance tracking systems, quarterly grant reporting, fiscal management and oversight.

Total Project Costs: \$5,383,568

Leveraged Funds

A total of \$6,499,904 is being provided through leveraged resources. This includes the following:

Oregon Department of Community Colleges and Workforce Development: \$495,000. Leveraged funds include planning and implementation work around the Green Jobs Council and development of the coordinating Networks of Excellence framework, Green Career Readiness Certificate (Green CRC) development, as well as project management and oversight, and participant tracking and reporting and OWIB support. Please note that significant additional state support is provided which has not been quantified, including economic development and tax credits for development and use of renewable energy, support of weatherization products and other areas in which Oregon is taking a leadership role and indirectly or directly supports both training programs and creation of demand for workers with renewable energy and energy efficiency skills.

Portland Metro Local Team (Worksystems): WorkSource resources: \$2,042,000 based on leveraged funding of \$2 million in WIA funds for participant support and training, and \$42,000 from private sector partners including PGE for internships.

Salem metro area Local Team (Enterprise for Employment and Education): \$1,300,000 based on leveraged funding of \$30,000 from the DOL STEM grant; \$800,000 from WIA adult and dislocated worker funds; \$200,000 from WIA youth funds; \$160,000 from the Cluster project; and \$120,000 from Employer Workforce Training Funds.

Linn-Benton-Lincoln counties Local Team: \$398,900. Includes \$45,000 in pledged funding from Oregon Housing and Community Services; \$165,000 in ARRA/WIA older youth funds; \$130,800 in ARRA/WIA Dislocated Worker and Adult Funds; and \$58,000 in CSC's Weatherization Assistance Program support including use of expertise, supplies, equipment, etc.

Lane County Local Team: \$217,750. Includes \$19,750 for equipment provided by the Energy Program (10 light meters and 10 four-channel micro datalogger sets); \$48,000 for distance learning development and support; and \$150,000 in WIA Training and Support Services funds.

Rogue Valley Local Team: \$4,000. Includes funds for participant training and support needs from the Joint Apprenticeship Training Committee (JATC) and Rogue Community College.

Clackamas Local Team: \$831,621. Leveraged funds for training and curriculum modifications, employer OJT and paid student internships, and participant recruitment and services include \$117,175 from Clackamas Community College; \$54,400 from Workforce Investment Council of Clackamas County; \$314,05 from Contractors and Employers; \$211,575 from local government agencies and code officials; \$92,775 from architects and designers; and an additional \$39,601 in indirect.

Rural Oregon Local Team: \$1,210,633. Leveraged funds for curriculum development and delivery, participant training and support needs include \$1 million in WIA Adult and Dislocated Worker funds; community college funds of \$200,633 from general funds and in-kind facilities, equipment, supplies, labor, administration and personal services, and an additional \$10,000 from Linn-Benton Community College.

Oregon is recognized internationally as a leader in renewable energy, clean technology, sustainable building practices, environmental laws, cutting-edge mass transit systems, and for our overall ‘green’ lifestyle. As the world seeks innovative solutions that will ensure a sustainable future, it looks here—because *Oregon is where sustainability is taught, tested, and practiced*. We put ideas into action, and the results resonate across the country and around the world. We were the first state to install photovoltaics on our capitol building, we provide strong tax incentives for building and using renewable energy; we offer more than 30 different “green” training programs at our community colleges and union apprenticeship programs, as well as the nation’s first Bachelor’s degree in Renewable Energy Engineering. With our green reputation firmly established, we are focused on creating dramatic economic growth featuring family wage jobs in renewable energy and energy efficiency. This ***Greening of Oregon’s Workforce*** project, submitted by the Oregon Workforce Investment Board (OWIB) develops local networks of training in green occupations within a long-standing statewide energy sector strategy guiding economic growth.

1. Statement of Need

i. State’s Existing Energy Policy. Oregon’s strategic commitment to a sustainable energy policy has its roots in the state’s earliest history, protecting the natural resources that nourished our first citizens physically, economically, and emotionally. Today, our energy policy seamlessly links energy infrastructure with advances in technology, strategic economic development initiatives, higher education curriculum, and workforce training. Building on several decades of work, Oregon’s current energy policy was instigated by two simultaneous policy drivers: 1) our participation in a National Governor’s Association industry cluster academy; and 2) the creation of the Oregon Innovation Council, “Oregon InC”. Through the

cluster academy, clean technology (wind, solar, geothermal, wave, energy efficiency, green building, and biomass) was identified as the focus for an integrated multi-agency economic development strategy. That focus now drives the state's economic development, energy, and workforce efforts. At the same time, Oregon InC, a council appointed by the Governor to drive the state's innovation strategy, is strongly accentuating sustainability in Oregon's major industries, and successfully lobbied the legislature to fund a collaborate research center focused on sustainability innovation. The *Built Environment and Sustainable Technologies (BEST) Center* received \$2.5 million in 2007 and another \$2.75 million in 2009 to fuel the commercialization of clean energy, green building and green technologies.

The Oregon Department of Energy (ODOE) has developed a broad range of policies and programs to promote sustainability, green technology, and energy conservation including our much-admired *Business Energy Tax Credit (BETC)* program, which provides substantial tax credits for Oregon businesses that invest in energy conservation, recycling, renewable energy resources and less-polluting transportation fuels. The BETC has been hugely successful, bringing \$1.4 billion in committed capital to the region. Further, ODOE supports significant conservation efforts in homes, commercial buildings, and public buildings including schools.

Policies for Creation of Jobs in Target Industries. Oregon has established itself as a leader in the green economy through legislative and regulatory action, all of which support creation of family wage jobs in the energy efficiency and renewable energy industries. Oregon's economic development agency has focused its efforts on sustainable business, clean technology and advanced manufacturing. In January, Oregon's Governor created the "Oregon Way" to build on Oregon's global leadership in renewable energy development and sustainability to create jobs and restore prosperity. The Oregon Way Advisory Group, comprised of public and

private sector leaders with expertise in sustainability, assists state agencies, local governments, non-profits, and private sector firms to build partnerships and promote ARRA projects that create sustainable, living wage jobs for Oregonians. Also in 2009, the Oregon Legislature passed House Bill 3300, Oregon's Green Job Strategy, which places OWIB in the role of developing a state Green Jobs Economic Revitalization and Growth Initiative Plan (completed June 30, 2010).

The WIA/Wagner-Peyser Act State Plans. Oregon's State Plan directs the workforce system to follow the Governor's focus areas for workforce development, which include green jobs, manufacturing, and a regional approach to high-wage, high-demand jobs.

Needs of the State Relating to Current Economy. Oregon is in the midst of a deep recession, with the fourth highest unemployment rate in the nation. Current projections indicate the economy will continue to contract until the first quarter of 2010 and not regain pre-recession employment levels until 2013. The Oregon Office of Economic Analysis' September 2009 Economic and Revenue Forecast documents the second quarter of 2009 as the fifth consecutive quarter of job losses, and the third consecutive quarter with annualized job losses above six percent. Oregon's unemployment rate soared from a pre-recession level of less than 5.5 percent in late 2007 to 12.2 percent in August 2009, and has been among the highest in the nation for months. Total nonfarm payroll employment has declined by 6.5% since December 2007, the seventh-largest job loss in the nation. As of August 2009, eight of Oregon's 11 major industry groups had suffered a more severe over-the-year percentage job loss than the nation as a whole.

Target Industry Trends. Prior to the recession, Oregon's large and fast-growing clean energy economy dwarfed the growth of overall jobs in the state, expanding by 4.8 percent compared with less than 1 percent overall, and Oregon is one of three states with "large and fast-growing clean energy economies" (Pew Charitable Trust, Clean Energy Economy, June 2009).

Renewable Energy. Several solar energy manufacturers, Peak Sun Silicon, PV Powered, SolarWorld, Solaicx and Oregon Crystal Technologies, are building or expanding in Oregon. SolarWorld's 500 MW solar PV plant will be the largest U.S. crystalline silicon PV facility when completed in 2011. Oregon will also have one of the largest planned wind farms in the world: the Shepherd's Flat Wind Farm, will span two counties in rural Oregon and have 303 wind turbines with a peak capacity of 909 megawatts (MW). Portland's first-in-the nation requirement that all fuel sold in the city include a biofuel component and strong statewide Renewable Fuel Standards have helped establish a strong local market. There is also an emerging industry in electric vehicles and batteries with deployment of a charging station network; EnerG2 is building the world's first commercial-scale plant for nano-structured ultracapacitors; and Entek is producing nickel-cobalt-metal battery cells and packs.

Green Building Practices. The energy-efficient building, construction and retrofit industries, along with the associated deconstruction and materials use, and energy efficiency auditing industries, have a strong base in Oregon. As of September 2007, Portland had the highest number of Leadership in Energy and Environmental Design (LEED) certified buildings in the country (US Green Building Council, 2007). The housing industry downturn has led to an increase in remodeling, retrofitting, and other services to improve energy efficiency. State and federal tax incentives are already starting to generate significant work in this area.

Advanced Drive Train and Energy Efficient Vehicles. Oregon was named as a test market for new all-electric cars by the Electric Transportation Engineering Corp. (eTec). Last Spring, Governor Kulongoski announced MOU's with both Nissan and Mitsubishi to work with the state and our utility providers toward the development of an electric vehicle charging network to promote the use of zero-emission vehicles. Entek, another Oregon company, will

partner with Michigan-based Johnson Controls to produce nickel-cobalt-metal battery cells and packs. And earlier this month, ReVolt, a Swiss company developing zinc batteries for electric cars chose Portland, Ore., as its U.S. headquarters.

Supply Chain Manufacturing. Oregon has a solid manufacturing base, especially in computer and electronic products. The large existing workforce in Oregon’s semiconductor industry makes Oregon an ideal location for solar PV manufacturing companies. The supply chain can be tapped in the manufacture of solar PV cells and modules, smart grid devices, green building materials, and other components for the clean energy economy.

ii. Current and Projected Employment in Target Industries by Occupation. The Oregon Employment Department (OED) June 2009 report, “*The Greening of Oregon’s Workforce*,” showed that overall, employers projected 14% growth in green jobs; specific occupations are described in the following table.

<i>Employer Projections of <u>Green Jobs</u> by Occupation</i>			
Occupational Group	Total Workers 2008	Projected Workers 2010	Percent Change
Production	6,512	7,625	+17%
Architecture and Engineering	4,360	5,243	+20%
Construction and Extraction	10,381	11,077	+7%
Life, Physical and Social Science	4,125	4,338	+5%
Installation, Maintenance and Repair	2,233	2,402	+8%
Management	1,639	1,791	+9%
Computer and Mathematical	244	301	+23%

Job Skills Required. Based on the OED survey, minimum education requirements for green jobs closely mirrored requirements for all jobs statewide. Nearly one-third of green jobs required a special license or certificate. The most common special requirements were specific to occupations, such as an electrician’s license. Other common requirements were environmental cleanup or abatement certifications, equipment operator licenses and commercial driver’s licenses, and prior on-the-job experience.

Changes and shifts in the industries impacting workers. The biggest change in the target industries that impacted workers was the slow-down of the construction industry, which is projected to contract by 16% in 2009. Those construction workers with green building skills continue to be in higher demand than those without. Construction workers need to re-skill in areas of job growth: energy efficient buildings, including weatherization, retrofits, and energy efficiency analysis. For example, the ODOE's list of companies that employ one or more tax-credit certified solar technicians and that can perform solar PV &/or thermal installations had 40 companies on the list in 2007; as of September 2009, the number tripled to 124.

The renewable energy industry is continuing to grow, leading to a need for more workers in a wide variety of positions, as described below. Further increasing demand is the fact that Oregon's energy industry in general, and utilities in particular, face the challenge of an aging workforce. The next generation of workers will need to have up-to-date skills in the technologies of energy efficiency, smart grid, and other key sectors.

Specific Employers and Hiring Needs. Solar Energy: 3,390 new jobs, as follows: Peak Sun Silicon Corp (Millersburg), makes polysilicon & solar chemicals: 500 jobs by 2012; PV Powered Inc (Bend), makes inverters: 65 jobs, expanding to 100 plus new jobs; Solaicx, Inc (Portland), makes wafers and ingots: 180 jobs; SolarWorld (Hillsboro) makes cells: 350 jobs, expanding to 2,000.

Wind Energy: 490 new wind turbine technicians are needed according to the Columbia Gorge Community College, Wind Industry Needs Assessment 2009, Final Report. In wind power, Oregon has project developers and turbine installers, such as PP&L and Horizon Wind, and a growing number of wind product manufacturers. These include: Abundant Renewable Energy, which manufactures home and small farm scale turbines of the 2.5 to 10kW size;

Windmatic and VoltAir manufactures 65 kW and 45kW small scale turbines, respectively; Oregon Wind Corporation manufactures urban setting wind turbines; and both Vestas and Iberdrola, which have located their North American headquarters in Portland.

Green Building Practices: Weatherization companies are projecting to add workers, even with the current contraction in construction. A sampling of statewide employers resulted in listings for 105 new workers at Conditioning, Inc (Medford); Arrow Heating and Sheet Metal (South Beach); Total Comfort Weatherization (Salem); G. Christianson Construction (Corvallis); Central Oregon Heating and Cooling (Redmond); NW Home Energy Solutions (Beaverton); Advanced Energy Solutions (West Linn); All Phase Weatherization and Construction (Eagle Point); Springfield Utility Board (Springfield); Emerald People's Utility District (Lane County); Lane Electric Cooperative (Lane County); Blatchley Lane Cooperative (Lane County); SOLARC Architectural and Engineering (Eugene); Balhizer and Hubbard Engineering (Eugene); Lane County Housing Authority (Lane County); Premium Efficiency (Eugene).

Electric Vehicles: In addition to the solar and wind manufacturing cited above, Oregon is home to a growing electric vehicle and battery manufacturing presence. ReVolt, a Swiss company developing zinc batteries for electric cars has chosen Portland, Ore., as its U.S. headquarters, and is planning to hire 225 workers over the next five years. Brammo, located in the Rogue Valley, plans to add 100 jobs to its production plant based on successful marketing of the Enertia electric motorcycle through Best Buy.

How individuals will put these new skills to work. All training is specific to the targeted industries, and possesses a green skills component. Individuals will gain occupational and technical specific skills. The Local Project Teams will help them find placements.

iv. State's labor force. Oregon's population and employment are concentrated in the western third of the state and particularly in the Willamette Valley, which contains 71 percent of the state's population and 75 percent of its jobs. This results in an urban-rural disparity as workers in rural areas compete for fewer available jobs. Nearly 17% of Oregonians (393,000) who are over 16 years of age and not in school do not have a high school diploma, and 75% of the working age population has less than a Bachelor's degree (2000 Census).

The primary workforce challenge in Oregon now is the number of individuals who have been laid off and are seeking work. With unemployment hovering at 12%, there are over 235,000 workers at all skill levels needing to retrain to find jobs. Further workforce challenges and skill gaps for the pipeline of targeted industries vary by industry. Typically skill gaps relate to needing new skills for emerging industries, or adding green skills to a traditional occupation, such as training electricians to install solar panels. Oregon is developing a Green Career Readiness Certificate which will help individuals document baseline green skills, transferable skills, and any skill gaps.

2. State Energy Sector Partnership

i. Partnership Membership. The State Energy Sector Partnership is manifested in our Green Jobs Council, which will also be carrying out the green jobs strategy required by Oregon HB 3300, Oregon Green Jobs Strategy. Its membership includes all required partners: State Cabinet Officials from agencies receiving Recovery Act funding are represented by the Department of Community Colleges and Workforce Development and the Oregon Employment Department; energy efficiency and renewable energy businesses, industries, and public entities, including NW Natural (utility), Miles Fiberglass (manufactures wind turbine parts), Intel

Corporation (sustainable manufacturing), and Energy Trust of Oregon (energy efficiency assessment); and the AFL-CIO. It also includes suggested partners: state apprenticeship agency – Bureau of Labor and Industries; nonprofit organizations – CAPS Program (also a CBO) and Energy Trust of Oregon also falls into this category; the education and training community, including a community college, an Oregon university, two state Legislators and the Governor’s Senior Advisor for Economic Development and Workforce.

ii. Participation of SESP members. As described above, Oregon has already engaged in significant work around creating a framework for building Oregon’s clean energy and energy efficiency workforce. Most of the SESP members have participated in these efforts for years. The Green Jobs Council has met formally to discuss and approve the Sector Plan and the training projects to be provided by each of Oregon’s local workforce investment boards (LWIBs). There were three broad planning meetings open to the entire community (6/19, 7/29, 9/2); core planning group meetings and conference calls (7/30, 8/4, 8/6, 8/12, 9/9, and 9/17); and discussion at OWIB meetings (8/20, 9/16 and 10/2) all of which were attended by representatives of state cabinet officials, the Governor’s office, the sustainability sector, labor, and training and education partners, and all of whom are on the Green Jobs Council. Development of the sector plan was discussed throughout, with significant work at the August 12th meeting, and overall dissemination at the September 2nd meeting. Local project teams were invited to submit training ideas based on local need and within the framework of the statewide Sector Plan, and included projects were selected at the September 9th meeting.

The roles and responsibilities of each Green Jobs Council member are to (i) develop an integrated system of education, training and supportive services to meet the workforce demands of the energy efficiency and renewable energy industries, and other green occupations; (ii) link

to other state efforts, such as the Networks of Excellence which are emerging around green industries; and (iii) assure that the project is effectively implemented, and that workers are trained in skills that meet the needs of the target industries. The Green Jobs Council has determined that Oregon's seven Local WIB's will convene the local implementation teams.

iii. Leveraged funds. A total of \$6,499,904 is being leveraged to support the project. This includes: \$495,000 from the Oregon Department of Community Colleges and Workforce Development. Local project teams are providing a total of \$6,004,904 to directly support participant assessment, training and placement support. Full detail is provided in the budget narrative. Please note that the project is also supported by Oregon resources and policies that create workforce demand. For example, Oregon's BETC, green building, and renewable energy standards all build demand for workers with energy efficiency and renewable energy skills.

The partners have fully committed to providing the identified leveraged resources. Resources provide a breadth and depth of support, from meeting direct participant needs to building the systems aspects necessary for the project to succeed, and providing project management. The Green Career Readiness Certificate, now in development, is a leveraged resource that will provide foundational assessment and green skills training for any worker interested in entering a green career.

3. Strategy and Project Work Plan

i. Energy sector strategy for training workers, including number of jobs available, targeted industry sector focus areas, and proposed training activities. Oregon's Energy Sector Strategy is to train workers in the energy efficiency and renewable energy industries that are part of the state's overall energy policy, and align with the Governor's "Oregon Way" criteria,

including occupations which have long term demand, offer the potential for high wage, career pathway jobs, and support local sourcing and innovation. The Local WIBs will be utilizing evidenced-based sector approaches, based on the research of the Aspen Institute. They are all highly skilled in implementing sector partnerships that increase wages for individuals while filling specific industry demand and creating career pathways out of poverty.

Supporting the Energy Sector Strategy is the development of *Green Jobs Networks of Excellence* under Oregon’s House Bill 3300 Green Jobs Act. The Networks are sector strategies that will bring together industry, training and workforce programs, economic development and others to focus on specific segments of the green economy and will aggregate training demand, provide needed job skills, work with apprenticeship and other private sector training programs, develop (where needed) and replicate training programs, and connect training to trainees. The first Networks to be developed will follow the SESP target industries of renewable energy, green building practices, and electric or alternative fuel vehicles.

The targeted industry sector focus areas, associated training, and certificates are listed below. In addition, as other programs are accredited to do this training, the local teams will work with them, such as the LIUNA Weatherization Installer Technical Training.

Renewable Energy Industry and Supply Chain Manufacturers	
Training	Certificate/degree
Solar Voltaic Manufacturing Technology	AAS
Community College Engineering programs	Engineering AAS
Wind technology – community college programs	Certificate/Degree
Photovoltaic technology – community college programs	Certificate/Degree
Energy Management Technician	AAS
Solar Grid Certification Training	NABCEP Certif.

Green Building Practices and Supply Chain Manufacturers	
Weatherization Training	Certificate/degree
8 wk Intensive Intro to Weatherization	Certificate & OSHA
Weatherization Tech 1 week	Tech 1 certificate

Skill specific workshops	Certificate of completion
Weatherization, Green Bldg. & Retrofit Trainings	
Lead safety workshop / EPA Lead Abatement Training	LSWP Certification
OSHA Safety	OSHA Certification
Leadership in Energy and Environmental Design (LEED) - 10 hours of instruction on Green Home Design and Construction	LEED Certif.
Sustainable Home Professional Cert. (SHP) – Module 5, Health & Resource.	U.S. Green Building Council; American Inst. of Architects
Residential Green Building and the Building Codes.	Earth Advantage Institute, OR Home Builders Assoc.
Green Building & Retrofit Training	Certificate/degree
Engineering programs – CC	Engineering AAS
Architecture – with sustainable design and construction concepts	AAS
Sustainable Building – builds on architecture degree	1 yr certificate
Building Construction	AAS
Facilities Maintenance Tech and Industrial Tech	AAS
Sustainability Health and Safety	AAS
Sustainable Building Advisor	National Certif. non-credit
Building Analyst and Envelope Prof.	BPI Certif. non-credit

Supply Chain Manufacturers for above and for Electric Vehicles	
Training	Certificate/degree
Green Process Technology – community college program	Certificate
Advanced Green Manufacturing Technology	Degree
Oregon Green Tech Certificate Program- community college	Certificate

Based on the OED *Greening of Oregon's Workforce* survey, Oregon businesses are expecting to hire at least 3,283 new workers in these occupations. Similarly, adding up the projected new hires in the solar and wind manufacturing and weatherization companies listed above totals nearly 4,000 new workers. It is clear that there is job growth in these industries, even in the midst of the recession. As the economy recovers, these industries are expected to grow even more rapidly, and having a skilled workforce available is critical to their growth.

All of the proposed training is directly related to preparing workers for employment in the target industries. The proposed training and certifications move along a continuum of training intensity, from weatherization training to get people employed immediately, to full AAS degree programs for higher skilled positions. The training responds to the high levels of

unemployment in all sectors of the workforce, by providing a range of training options, based on local workforce needs and opportunities. Please see the local project descriptions for detail.

Training, Oregon's energy sector policies, State Plan, and Need. All proposed training activities were required to meet state policy directives relating to clean technology, green building, and green development, and to meet the Oregon Way criteria of the State Plan to promote energy efficiency, renewable energy, and carbon reduction; and above all, create sustainable quality jobs for Oregonians. The target industries were chosen based on the data outlined in the statement of need, including current industry strength in Oregon and support by State policies. It also considered areas of recent layoffs, and the existence of large numbers of workers who have skills that are transferable, at least in part, to the target industries. The three industry areas were also chosen based on projections of growth over the next several years.

ii. Priority populations. Priority populations to be served are (1) unemployed workers, (2) individuals residing in high poverty areas seeking pathways out of poverty, and (3) incumbent workers in need of updated training to enter or advance in one of the target industries.

Some individuals are expected to require academic skills remediation, industry specific math and language skills or English as a Second Language skills. Vocational ESL courses and fundamental courses in math and reading will be offered through the community colleges and the WIA funded WorkSource one-stop system, as a leveraged resource. Other barriers may include wrap-around service needs such as child care, transportation, or living expenses. The WorkSource system and colleges can provide some assistance through scholarships and linkages to community resources. Evidence from Oregon's work in Career Pathways shows that these approaches make a significant difference in the success of adults with barriers to employment.

The majority of trainees entering AAS degree programs are likely to be workers dislocated from high-tech, semiconductor and manufacturing industries. This population is likely to face similar challenges as other dislocated worker populations due to reduced income. These challenges will be addressed in a number of ways, including accelerated coursework, and building on past academic achievements and credit for prior learning. A combination of Unemployment Insurance, Trade Act assistance, Federal Financial Aid, WIA support services (transportation and child care assistance) will assist trainees with financial barriers.

Transferable Skills and Skills Gap. Many of the unemployed workers are skilled individuals who have experience in manufacturing, construction, natural resources, and other related fields but are in need of training to enter the target industries. These workers may have relevant work experience but lack the training and certification that will allow them to move into higher wage jobs or careers that support green industries. For example, dislocated workers from the construction trades bring with them needed building skills, tools and work ethic; their skill gaps are in specialized skills in advanced building science, weatherization, and energy efficiency, and areas such as deconstruction methods that optimize materials reclamation and reuse, incentives (new building codes, disposal costs, permit fees) for deconstruction and materials recovery and reuse, alternative uses and markets for reclaimed construction materials, and new codes that allow for additional uses of reclaimed materials. Unemployed workers dislocated from high-tech and manufacturing will likely possess many skills that will be transferable to target industries such as understanding the “built environment”; analytical and problem solving skills; project management and communication skills. Other individuals may have little training or experience, and will benefit from a certification program that will give them the background needed to gain entry into emerging green industries. The leveraged use of

both the Green Career Readiness Certificate that Oregon is in the process of developing, and the general Career Readiness Certificate, will assist in identifying entry-level skills gaps in green career readiness skills, and provide direction for addressing those gaps.

iii. Local project teams. Seven local project teams were selected with emphasis on responding to local workforce and employer needs. Over the last six years, Oregon's local WIBs have proven their ability to lead successful sector projects, and therefore will convene each of the local teams. The specific composition of each project team is based on the specific industry needs and partners available in the community. The local teams have worked together to develop a consistent process for recruiting and assessing individuals, as well as for providing placement and retention support. While individual trainings vary by region, all fit within the target industries, will be provided by community colleges or other qualified training providers, and will lead to an industry recognized certificate or degree. Each local project team will include at least one labor representative with expertise in the targeted green industry, chosen in consultation with the labor representative currently on the local boards.

Geographic Area, Lead Staff and Team Partners and their Roles.

Portland Metro Local Team. This team serves Multnomah and Washington Counties and the City of Portland. The Lead staff is Heather Ficht, Regional Business Services Manager, Worksystems (WSI). Ms Ficht leads a sector project working directly with a consortium of companies in the renewable energy and clean technology industries to identify and support their workforce training needs, and serves as the initial point of contact around workforce resources for economic development efforts in the region. These companies have identified the target degrees and certificates for this project based on their knowledge of the industry and will continue to provide input to and feedback to the program. WSI will also work with its contracted

Title IB service providers to support the project. Additional project team partners and their roles are: Oregon Institute of Technology, which has one of the first Bachelor of Science in Renewable Energy Systems programs in the country, will provide expertise, coordinate internships, and inform graduates of future educational opportunities at OIT; Mt Hood and Portland Community Colleges provide one-stop services and will coordinate recruitment and co-enrollment of trainees in the WorkSource system and college programs.

Salem Metro Local Team. This team will serve the Salem metropolitan area, including Marion, Polk and Yamhill Counties. The team will be convened by Pat Grose, Director of the Enterprise for Employment and Education, the LWIB and local WorkSource operator. Ms. Grose convened Oregon's first statewide industry-led sector training project and has extensive experience with WIA management. The Enterprise will lead the project, facilitate partner meetings, coordinate services with the Local WorkSource Centers, and oversee training, grant reporting, fiscal management, and resource management. The Enterprise will leverage its relationships with local green businesses for input, referrals and placements. Chemeketa Community College will provide assessment and training services, issue certificates and degrees accordingly, and align with apprenticeship programs. The youth apprenticeship committee will connect opportunities to youth. Business Oregon, McMinnville Economic Development Partnership, and Strategic Economic Development Corporation will promote the training to local companies, recruit incumbent workers and market the program to companies interested in moving to the area.

Linn-Benton-Lincoln County Local Team. This team serves Linn, Benton and Lincoln Counties. This team will be convened by Steve Bekofsky, the LWIB Director who will provide project oversight. Steve has 5 years experience staffing sector partnerships. The project will be staffed by the Community Services Consortium, the agency providing local low income

weatherization services and Title 1B services in the local WorkSource Centers. CSC will provide certified Weatherization and Construction Training and Energy Auditor training. Project team members providing project input and connection to the business community include: Linn-Benton Community College, the Oregon Employment Dept., Albany Millersburg Economic Development, Economic Development Alliance, Lane Community College and Oregon Energy Coordinators Association (OECA) Training and Technical Assistance Committee, the Oregon Southern Idaho Laborers-Employers Training Trust, and others as appropriate.

Lane County Area Local Team. This team serves Lane County, including the city of Eugene, although job placements may occur statewide. The team will be convened by Robin Scott and overseen by Chuck Forster, Executive Director of the Lane Workforce Partnership. Robin has over 13 years experience in all areas of workforce development and currently manages two grant-funded sectoral projects. Lane Workforce Partnership will facilitate participant enrollment into the local WorkSource Centers. The team will be co-led by the program's lead instructor and coordinator Richard Jackson-Gistilli, a mechanical engineer who has been an adjunct instructor in Lane Community College's Energy Management Program for ten years. Additional project team partners who will participate in project oversight and implementation are Oregon Employment Department, Lane Community College; Lane County Community and Economic Development. Lane Community College has a long-standing reputation as a state lead in Green Building technologies. Its Energy Management Technician program was built and continues to be modified with industry support. Lane Workforce Partnership has strong relationships with a number of target companies through its role of facilitating industry training consortia.

Rogue Valley Local Team will serve Jackson and Josephine counties in south-central Oregon. Jim Fong, Executive Director of The Job Council, will convene the local team, serve as lead

staff, and oversee the project. Mr. Fong has an extensive career in public service and national private foundations, with expertise in organizational change. He has led the region's GROW initiative to create a pipeline of skilled workers for local industries. Ron Fox, Executive Director for the Southern Oregon Regional Economic Development Inc., will assist with the project and provide connections to the local businesses. Additional members will include community leaders for sustainable practices, such as S&B James Construction Management, and RHT Energy Solutions.

Clackamas County Local Team will serve Clackamas County bordering the Portland Metro region. Kim Parker, Executive Director, Workforce Investment Council of Clackamas County (WICCO) will lead the project. Ms. Parker has over 20 years successful experience managing nonprofits, including as the former Executive Director of a Habitat for Humanity affiliate. WICCO will provide project oversight and fiscal management and connect the project to the local WorkSource Center; Clackamas Community College will provide technical support, project management, instruction and connections between college and WorkSource resources. WICCO will also consult with the Oregon Southern Idaho Laborers-Employers Training Trust regarding ways to incorporate their weatherization training program, and with others as appropriate.

The Rural Oregon Local Team will serve Oregon's rural counties through the cooperation of nine partner community colleges and local WorkSource centers. The team will be led by Samuel Johnson, Program Specialist, The Oregon Consortium and Oregon Workforce Alliance (TOC/OWA), the LWIB for this area. Mr. Johnson has an MS, Environmental Science; MPP, Environmental Policy and Rural Policy and is part of TOC/OWA's administrative team responsible for programmatic quality assurance, monitoring and reporting, and policy and planning development and review. The team will be co-led by Pete Bober, Umpqua Community

College Director of Workforce and Community Education. Mr. Bober has thirty years experience working with U.S. DOL and other workforce programs. For nineteen of those years he has developed workforce programs and initiatives at the community college level. Additional members of the project team are as follows: Nine community colleges will complete development of the Oregon Green Tech Certificate, submit it for state approval, and offer the Certificate program. College staff will coordinate with WorkSource to support trainee success. Seven WIA Title IB Regional Programs will coordinate enrollment into WorkSource and the scholarship process for trainees to leverage support, placement and retention services. TOC/OWA staff will assist with coordinating these partners from the community college and WorkSource system. Industry input will be provided by community college advisory councils and TOC/OWA Board members, including Bradwood Landing LLC (a natural gas company), Pacific Power, the Pacific NW Council of Carpenters, the Oregon State Building and Construction Trades Council, and Eastern Oregon Economic Development. The project will also be informed by the Green CRC advisory council being piloted in rural Oregon.

Recruitment and Assessment. The seven local project teams have developed a consistent process for recruiting individuals, assisting them to succeed in training and jobs in the target industries. The local project teams will recruit participants via the local one-stop system, WorkSource Oregon, and through partnerships with their local colleges, businesses and economic development partners. With an unemployment rate at or above 12% in Oregon, WorkSource Centers are struggling to keep up with the demand. Community colleges are also experiencing record enrollment growth, even as funding shortfalls are projected into the next year. It will not be difficult to find a sufficient number of program applicants for these training programs. Assessment will include WIA assessment at the WorkSource Oregon (one stop)

centers and community college entrance assessments for career planning, determining training needs including any fundamental academic skills, and developing an individual training plan. Further, as appropriate training graduates complete the Career Readiness Certificate assessment, we will be able to further provide a means to demonstrate work readiness to potential employers.

Training: Addressing the Needs of the Target Populations. All project participants will be enrolled in the WIA Title 1B program through the standard WorkSource “welcome” process. This process includes skills assessment, orientation to services and the development of an initial plan. The assessment will identify potential skill gaps and necessary remediation. Participants will be referred to a menu of options for addressing the skill needs at the WorkSource Centers and/or to a local community college adult basic skills program. Case management and supportive services will be provided through leveraged WIA funding and community college student support services. All training programs will remove barriers to participation by reducing the amount of time needed to complete the program, in some cases through accelerated training options, and by offering training at times and locations convenient to project participants.

Enrollment of project participants into the WIA system assures access to the full menu of career development options available through WorkSource Centers, training related support services, placement, retention, and follow up services. It also places all participants into the WIA Management Information System to track their progress and report on outcomes.

Training: Focused on In-Demand Skills, Leading to Degrees/Certificates and Employment. Training will fit the needs of the industries and workers in each local area, while adhering to the target industries and strategies of Oregon’s State Energy Sector Plan.

The Portland Metro Local Team will recruit 110 unemployed or underemployed people with some college credits (50-70% of the credits required for an AA or AAS) who are not currently

enrolled in college, to complete their Associate of Applied Science (AAS) degree and obtain employment in renewable electric power, sustainable manufacturing and energy efficiency industries. Training will be provided by Mount Hood and Portland Community Colleges. Additionally, OIT's industry partners in the renewable energy sector have developed 15 internship opportunities for students studying Renewable Energy Engineering to enhance their skills during the educational process and ensure greater employability upon graduation. To date, 93% of OIT students who had access to this type of internship during their undergraduate program received job offers in the energy industry upon graduation.

Training Name	Degree(s)	Occupation(s)
Solar Voltaic Manuf. Technology	AAS	Solar Manufacturing Technician
Architecture – w/sustainable design and construction concepts embedded	AAS	Architectural drafter
Sustainable Building –architecture	1 yr certif.	Architectural drafter w/sustainable focus
Building Construction	AAS	residential or commercial carpentry
Facilities Maintenance Tech and Industrial Tech	AAS	Facilities Maintenance technician - HVAC/R, other equipment and systems
Sustainability Health and Safety	AAS	Hazardous Material Specialist, Hazardous Material Technicians, Lab & Field Technicians, Energy Auditors
Sustainable Building Advisor	National Certif.	
Building Analyst, Envelope Prof.	BPI Certif.	Energy Analyst
Engineering programs	Engineering AAS	Civil, Mechanical, Industrial, Microelectronics Engineers
Automotive Technology-sustainable concepts (Electric, hybrid, alt.fuel)	AAS	Auto Mechanic Specialist, Manufacturing

The Salem Metro Local Team will recruit 465 dislocated and incumbent workers to enter or advance in the target industries. The three-county area has a large number of workers dislocated from traditional manufacturing (recreational vehicles, steel mill). Increasingly, Salem manufacturers are retooling to support the renewable energy and green building industries. With the recruitment of Sanyo, which is projecting to hire 200 new workers, and other manufacturers expanding to sustainable product markets and reducing waste costs by adopting sustainable

manufacturing and construction processes, these dislocated workers need upgraded skills to re-enter the market. Specifically workers lack skills related to specific renewable energy and energy efficiency technologies. Training will be provided by Chemeketa Community College.

Training Name	Certificate/degree	Occupation(s)
Green Process Technology	Certificate	All manufacturing sectors
Wind Technology	Certificate/Degree	Wind power
Photovoltaic Technology	Certificate/Degree	Solar installation
Advanced Green Manufact. Technology	Degree	All industry sectors

The Linn Benton Lincoln Local Team will recruit 175 individuals to enter employment in the weatherization and home retrofit industries. This is a largely rural area with limited access to training facilities. A mobile training facility will provide training to individuals otherwise isolated from training programs, thus providing access to previously unavailable weatherization services. Training will be provided by the Community Services Consortium’s weatherization instructors in collaboration two local community colleges, the Oregon Energy Coordinators Association, and Northwest Energy Education Institute. In addition, as other programs are accredited to do this training, such as the LIUNA Weatherization Installer Technical Training, the local team will work with them.

Training Name	Certificate/degree(s)	Occupation(s)
8 wk Intensive Intro to Weatherization	Lead safety, BPI, first aid/CPR, OSHA safety training	Weatherization; Energy Auditors; Energy Analyst; HVAC; Air sealing/ duct sealing; Energy Educator; General Construction/ Carpenter; New Construction/ Remodeling; Insulation; Window Installers; Roofers; Painters
Weatherization Tech 1 week	Tech 1 certificate	Weatherization; HVAC; Air sealing/ duct sealing; Energy Educator; General Construction/ Carpenter; New Construction/ Comprehensive Remodeling; Insulation; Window Installers
Skill specific workshops	Certificate of completion	Skill dependent
Lead safety	LSWP Certification	Weatherization; Painters; Construction; HVAC
OSHA Safety	OSHA Certification	All trades
Blower door and	Certificate of	Energy Analyst; Energy Auditor; HVAC;

Duct diagnostics	Completion	Weatherization; Air sealing/ Duct sealing
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The Lane County Local Team will recruit 25 dislocated workers who have a background in manufacturing, construction and high-tech into a customized and accelerated AAS training. Graduates of the Energy Management Program evaluate residential and commercial energy use and recommend solutions for reducing energy consumption via efficiency and alternative sources. Graduates of the Renewable Energy Technician Option recommend specific energy conservation systems and install photovoltaic and solar domestic hot water systems.

Training Name	Degree(s)	Occupation(s)
Energy Management Technician	AAS	Energy Management Technician; Renewable Energy Technician

The Rogue Valley Local Team will recruit 30 electricians to become certified solar grid installers. Solar grid installation by an NABCEP Certified individual is necessary to qualify a purchaser for solar grid product warranties and Oregon Energy Trust incentives. The local industry has seen a downturn in construction, resulting in work slowdowns or layoffs for electricians, but an unmet demand for qualified solar grid installers. Training will be provided through the local Electricians Joint Apprenticeship Training Committee (JATC).

Training Name	Degree(s)	Occupation(s)
Solar Grid Certification Training	NABCEP Certif.	Electrician – with NABCEP Certification for Solar Grid Installation

The Clackamas County Local Area Team will build on the County’s central focus on green building in its economic development strategy (Clackamas County Fifth Community Congress, 2007). Although Clackamas County has had one of the fastest growing construction industries in the state, the economic downturn means increased unemployment in this industry. The project will retrain 190 unemployed construction and other workers with the green skills needed to

perform weatherization and retrofits, and with the green building skills that are in demand.

Training will be provided by Clackamas Community College, Earth Advantage Institute, and the Western Regional Lead Training Center.

Training Name	Degree(s)/Certifications	Occupation(s)
Leadership in Energy and Environmental Design (LEED)	10 hours of instruction on Green Home Design and Construction, materials and further guidance on pursuing their certification	<u>Construction and Extraction:</u> <ul style="list-style-type: none"> ▪ Supervisors and managers ▪ Construction trades workers – operating engineers, construction equipment operators, construction laborers, brick masons, carpenters, insulation workers – floors, ceiling, wall ▪ Helpers, Construction trades ▪ Other construction and related workers: construction and building inspectors, hazardous materials removal workers, <u>Installation, maint. and repair:</u> <ul style="list-style-type: none"> ▪ HVAC mechanics and installers ▪ Maintenance workers, machinery ▪ Installation, maintenance and repair worker’s helpers <u>Architectural and engineering occupations</u>
Sustainable Home Professional Certification (SHP) – Module 5, Health and Resource.	SHP has been approved by the U.S. Green Building Council’s Education Provider Program as a 400-level mastery course and is a registered program of the American Institute of Architects (AIA) Continuing Education System (CES).	
Residential Green Building and the Building Codes.	This course was co-created by Earth Advantage Institute, the Oregon Home Builders Association, through an Oregon State Building Code Division grant	
EPA Lead Abatement Training	Certificate of Completion - Accredited by Oregon’s Lead-based Paint Program (LBPP	

The Rural Oregon Local Team is using a proven model to meet the distinct needs of rural Oregon. The model is based on several factors: 1. Rural Oregon holds the greatest long term potential for green industry because of its vast resource base – miles and miles of land for wind turbines, biomass production, geothermal, etc. While these industries do not in and of themselves produce large numbers of jobs, localizing the supplier networks and greening those who provide necessary services (auto mechanics, builders, etc.) expands the green job base. 2. These rural green industries and suppliers typically have small employment bases. As a result, many occupations have only one or two local job openings at a time. And, while companies

expect their workers to have specialized skills, they also need them to be “jacks of all trades”. These workers are critical to the success of local industries, but it is difficult to create access to training capacity needed to develop them. Therefore, training programs that provide highly transferable technical skills are the most effective way to prepare individuals for these job openings and expand the capacity of green industries, including those that are small businesses, to take advantage of the opportunities provided by rural Oregon.

To meet these needs, this project will develop and provide an Oregon Green Technology Certificate, which will prepare entry level employees in industries that are associated with or support green jobs. The nine participating community colleges will adapt existing curriculum and courses to create the certificate program, giving participants a credential they can use to become employed immediately, and build on as their companies grow and require additional, more specialized skills via apprenticeships and/or additional training including a degree.

Individuals who complete the one-year Certificate will possess a unique set of electrical, mechanical systems, and heating/cooling systems skills for a broad array of green occupations: green energies production, equipment manufacturing (such as solar panel, wind turbine, wave energy, bio-energy components), construction and installation, monitoring and repair, and building retrofitting. Students will understand: the production of energy using renewable resources such as wind, solar, wave, geothermal, biomass, etc; sustainable decision making practices; deconstruction, recycling and reuse of materials in building construction and renovation; net metering; use and maintenance of equipment to reduce carbon emissions; supply chain processes and how each has a net impact on energy production, use and emissions; and understanding of the regionality of energy production and use.

Training will be provided by nine Oregon community colleges located in rural Oregon. Deliverables will include the new curricula, adaptation of existing curricula, and overall development of the Oregon Green Tech Certificate. Because Oregon is a small business state, this certificate, once piloted, will be useful beyond the rural communities. Although only one cohort will complete training and enter employment during the grant period, this is a long-term investment that will be able to be offered at all 17 Oregon community colleges, to meet projected employer skill demands for the long term, and easily replicable nationally.

Training Name	Certificate	Occupation(s)
Oregon Green Tech Certificate Program	The Oregon Green Tech Certificate	A broad range of technicians: Electrical, mechanical, renewable energy engineering; manufacturing; environmental engineering; HVAC weatherization specialist; power systems.

Placement and Retention Strategies for all Local Teams. Participants will be placed in jobs via the one-stop system. Local WorkSource centers and colleges will work with existing and new industry partners to identify job openings and refer individuals to those openings. Placement will be further aided by information gathered from the business partners participating on the project teams. The WorkSource agencies will provide assistance with resume writing and interviewing skill development. All participants will have access to retention services, including supportive services as needed, mediation between employer and employee, and additional supports available through both the WorkSource system and colleges.

iv. Applicant capacity - to lead and manage the SESP, oversee project teams. The Oregon Workforce Investment Board has led many projects involving multiple partners, including the Employer Workforce Training Fund (Oregon’s incumbent worker training program); Winning in the Global Market (strategic plan); Greening of Oregon’s Workforce; Career Readiness Certificate; Manufacturing Strategy; Youth Apprenticeship Pilots; MyPath Careers communications plan and website; Future Workforce Needs Study; and Consortia

building and cluster/sector strategies. The SESP will be supported by a full time coordinator (to be hired), and as a leveraged resource, by Greg White, Executive Staff to the OWIB, who guides this business-led board in advising the Governor on workforce development policy for the state. Mr. White acts in a consultative capacity for workforce issues and projects for that agency, including WIA and workforce system performance. He will co-manage the grant with Karen Humelbaugh, Education and Workforce Systems Director, who manages all WIA resources, including roughly \$39 million in 2009 formula and \$38.5 million in ARRA funding, all NEGs and the state’s WIRED grant. Further, the OWIB is housed at CCWD, which is responsible for overseeing WIA operations, and has the structures in place to assist the local project teams. Annually, the Department manages more than 200 grants and contracts valued at \$50 million.

CCWD’s systems and controls to comply with federal rules and regulations. CCWD is the state agency with the responsibility to receive and disburse the WIA Title I funds. CCWD also administers Oregon’s allocations of Title II and Carl Perkins Post-Secondary funding, as well as the Community College Support Fund. The CCWD has long-term experience managing WIA funds, resulting in existing structures and supports for accurate financial, administrative and program reporting, including quarterly and annual financial reporting. CCWD is responsible for preparing distribution of federal, state funds, and bond proceeds to local workforce regions, community colleges and other state and local government agencies. CCWD has internal controls to ensure compliance with risk management principles, federal and state guidelines, including the Oregon Accounting Manual (OAM) and Generally Accepted Accounting Principles (GAAP).

4. Implementation Timeline. A. Implementation Timeline (1-2 pages)

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Green Jobs Council oversees project	X	X	X	X	X	X	X	X	X	X	X	X

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Networks of Excellence			X	X	X	X	X	X	X	X	X	X
Staff hired, etc.	X											
Local Project Teams meet at least quarterly	X	X	X	X	X	X	X	X	X	X	X	X
Outcome tracking & reporting		X	X	X	X	X	X	X	X	X	X	X
Sustainability Plan								X	X	X	X	X
Portland Metro Local Team												
Students begin training to complete their AAS			35	35	70	70	70	65	110	110	110	110
Note: type of training will depend on each student's previous academic work so specific enrollment targets by program are not specified here; however all will be in the training areas identified above and lead to careers in the target industries.												
Internships			5	5	5	5	10	10	10	10	15	15
Salem Metro Local Team												
Green Process Tech.				30	30	30	30	80	80	80	80	180
Adv. Green Mfg. Tech.				20	20	20	20	55	55	55	55	105
Wind Technology				10	10	10	10	25	25	25	25	45
Photovoltaic Tech.				10	10	10	10	25	25	25	25	45
Green Auto. Tech.				30	30	30	30	60	60	60	60	90
Linn-Benton-Lincoln Local Team												
Comprehensive 8-week older youth training		11	22	33	44	55	66	66	66	66	66	66
Lead Safe Work Practices Trainings	9	18	27	36	45	54	63	72	75	75	75	75
OSHA Safety Training	9	21	33	45	57	69	81	93	100	100	100	100
Skill specific Wkshps		5	5	15	15	20	20	25	30	30	30	30
Weatherization Tech Training (1 week)	4	10	16	22	28	34	44	56	60	60	60	60
Lane Local Team												
Accelerated AAS Energy Management		25	25	25	25	25	25	25	25	25	25	25
Rogue Valley Local Team												
Solar Grid Certificate							15	30	30	30	30	30
Clackamas Local Team												
LEED training			10	10	10	30	30	30	30	50	50	50
Sust. Home training				10	10	40	40	40	40	70	70	70
Green Bldg. training			10	10	10	30	30	30	30	50	50	50
Lead-abatement tr'ng.						50	50	50	50	100	100	100
Customized/VESL			5	5	5	35	35	35	35	75	75	75
Rural Oregon Local Team – development and implementation of Green Technology Certificate												
Green Tech Cert. developed & approved	x	x	x	x								

Activity	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Cohort 1					126 in cohort							
Cohort 2									126	126	126	126

B. Projected Outcomes. i. Process to collect, verify and manage participant data

Local areas will collect participant data using two MIS systems: iTrack which is a system built and maintained by Worksystems, Inc; and WOMIS which is a system built and maintained by the State of Oregon. Both are specifically designed to collect and manage participant data to meet WIA requirements. Both MIS systems are Internet based. Data from the two systems is uploaded to CCWD’s FTP server and merged into the WIAMIS system. After merging, all participant data is validated to identify any mission or invalid values, and these are then sent to local providers for correction. Data validation is done by monitoring and by using the DOL mandated software that provides the random sample of client records to be validated. Annual quality assurance reviews address multiple aspects of program compliance and improvement.

ii. Projected performance outcomes.	
Total participants served	1,247
Total beginning education/training activities	1,247
Total completing education/training activities	1,060
Total completing education/training that receive a degree or certificate	1,039
Total number of participants that complete education/training activities that are placed into unsubsidized employment	898
Total number of participants that complete education/training activities that are placed into training-related unsubsidized employment	811
Total in unsubsidized employment who retain employed status at 1st & 2nd quarters following initial placement	848

5. Suitability for Evaluation

Oregon is eager to participate in a rigorous evaluation of the *Greening of Oregon’s Workforce* project. The current unemployment rate clearly affects the number of individuals seeking training, and each WorkSource Center and community college currently has record numbers of

applicants. Using these two sources for recruitment provides access to large numbers of individuals seeking training and work. The State and local WIBs are able to collect participant-level data on individual applicants, and to track employment status and earnings through the state's unemployment insurance database, even for those individuals who do not enter the program or who do not complete training, thus providing the means to compare outcomes among various groups. Project retention strategies include individualized case management through the local WorkSource providers, with ongoing contact through the training and job retention periods, as well as by developing relationships with each employer. Both the relationships with individuals and employers, as well as Oregon's unemployment insurance database, will allow researchers to track those who leave the program before completion. The State of Oregon, the local WIBs and the Community Colleges are all willing to work collaboratively with an outside evaluator and with academics who are qualified independent researchers.

Funding the *Greening of Oregon's Workforce* project will enhance knowledge about effective programs. It starts with strong state-level commitments to renewable energy and green building practices that support job creation and build a demand for workers in these areas. The state Green Jobs Council, and the developing Green Jobs Networks of Excellence, provide a framework for leveraging resources, sharing best practices, and supporting local communities in maximizing green jobs training and employment opportunities. Each local community is able to identify areas of need and opportunity specific to their community, based on their particular mix of existing workforce skills and employment opportunities, and to provide a range of training, along the continuum from short-term training to degrees. Through this comprehensive strategy, we will increase access and workforce readiness for green jobs participation in communities across the state, which in turn will help provide a sound basis for economic growth.

Green Jobs Council

Charter

Oregon is internationally known as a leader in progressive land use, environmental laws, cutting-edge mass transit systems, renewable energy, sustainable building practices and built environment, and for its overall ‘green’ lifestyle. As the world seeks innovative solutions that will ensure a sustainable future, it looks here—to Oregon, because *this state is where sustainability is taught, tested, and practiced.*

The Green Jobs Council seeks to leverage Oregon’s current competitive advantage in renewable energy, energy efficiency and green industries, to preserve and create jobs and prepare Oregon’s workers to enter careers in these growing industries.

In the last legislative session, the Oregon Legislature charged the Oregon Workforce Investment Board with developing a Green Jobs Economic Revitalization and Growth Initiative Plan for the state. The preliminary Green Jobs Plan is due to the Legislature in January of 2010, and will be completed by June 30, 2010. The Green Jobs Council, under the auspices of the Oregon Workforce Investment Board, will lead this effort.

The Green Jobs Council will function as the State Energy Sector Partnership (SESP) for the purpose of overseeing and implementing the *Greening of Oregon’s Workforce* project, including training workers to enter green careers. Its goals are to:

A. Develop an integrated system of education, training and supportive services to meet the workforce demands of the energy efficiency and renewable energy industries, and other “green occupations.” The system will include:

- career pathway development;
- skill attainment to develop a workforce that is ready to work;
- connection of disparate efforts around the state into a coherent strategy with identifiable metrics; and
- new programs and training to meet business’ emerging needs.

B. Link Oregon’s emerging Networks of Excellence as the means for connecting relevant entities in particular green industries, aggregating industry demand, and identifying training programs.

C. Assure that Oregon workers are able to enter high demand, high wage jobs in the renewable energy and energy efficiency industries, and green industries.

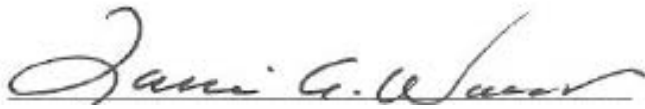
The key functions of the Green Jobs Council are to oversee the implementation and successful operation of Oregon’s State Energy Sector Plan, as described in the SESP proposal; strengthen connection with industry skill and hiring needs; and develop strategies for sustainability of project activities.

STATE ENERGY SECTOR PARTNERSHIP (SESP) SIGNATURES
Oregon Green Jobs Council

State Workforce Agencies and
State Cabinet Officials from Agencies Receiving Recovery Act Funding



Camille Preus
Commissioner
Department of Community Colleges and Workforce Development



Laurie Warner
Director
Oregon Employment Department

LWIB Consortia



Agnes Balassa
Director
Oregon Workforce Partnership (representing Local WIBs)

Please note the Chair of the Oregon Workforce Investment Board has signed under the Energy Efficiency and Renewable Energy Businesses category.

Energy Efficiency and Renewable Energy Businesses, Industries, and Public Entities



David Williams, Green Jobs Council Co-Chair
Vice President for Operations
NW Natural
Chair of OWIB



Lori Luchak, Green Jobs Council Co-Chair
President
Miles Fiberglass



Lorie Wigle
Eco-Tech Program Officer
Intel Corporation




Margie Harris
Executive Director
Energy Trust of Oregon

Labor Organizations




Barbara Byrd
Secretary Treasurer
Oregon AFL-CIO

State Apprenticeship Agency



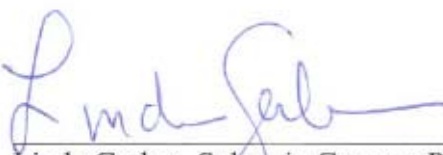
Brad Avakian
Commissioner
Bureau of Labor and Industries

Nonprofit Organizations/CBO




Colleen Neel
Energy and Weatherization Programs Manager
NeighborImpact, CAPS Program

Education and Training Community

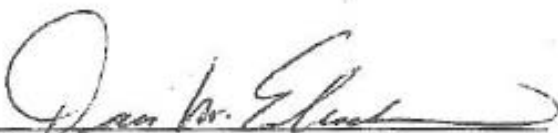


Linda Gerber, Sylvania Campus President
Portland Community College



Ronald Adams, Dean
College of Engineering
Oregon State University

Legislators



Rep. David Edwards



Rep. John Huffman

Governor's Office



Nancy Hamilton, Senior Advisor
Economic Development and Workforce

List of Local Project Teams

(name, title, organization, and specific training activities)

Portland Metro Area Local Team

Heather Ficht, Regional Business Services Manager, Worksystems, Inc.

Lita Colligan, Associate Vice President for Strategic Partnerships, Oregon Institute of Technology

Patrick Gihring, WorkSource System Manager at Worksystems, Inc.

Kim Freeman, Dean of Workforce and Economic Development, Mt Hood Community Colleges

Pamela Murray, Dean of Workforce and Economic Development, Portland Community College

Training Name	Certificate/ degree(s)
Solar Voltaic Manufacturing Technology	AAS
Architecture – w/sustainable design and construction concepts embedded	AAS
Sustainable Building – builds on architecture degree	1 yr certificate
Building Construction	AAS
Facilities Maintenance Tech and Industrial Tech	AAS
Sustainability Health and Safety	AAS
Sustainable Building Advisor	National Cert – non credit
Building Analyst and Envelope Professional	Prepares for BPI Certification exam - non credit
Engineering programs – CC	Engineering AAS

Salem Metro Area Local Team

Pat Grose, Director of the Enterprise for Employment and Education

Karen Litvin, Program Manager, Enterprise for Employment and Education

Gary Mueller, CFO, Enterprise for Employment and Education

Ron Jantzi, Dean of Industrial Arts, Chemeketa Community College

Cheryl Faulk, Dean of Instruction, Chemeketa Community College

Bob Topping, Director of Strategic Partnerships, Chemeketa Community College

Ron Hulett, Associate Dean, Chemeketa Community College

Diane McLaran, Director of Center for Business and Industry, Chemeketa Community College

Marilyn Hart-Reed, Dean of the Apprenticeship Program, Chemeketa Community College

Jon Ostling, Youth Apprenticeship Committee

Tom Fox, Regional Officer, Oregon Business Development Department

Jody Christensen, Partnership Director, McMinnville Economic Development

Nick Harville, Retention Officer, Strategic Economic Development Corporation

Training Name	Certificate/degree(s)
Green Process Technology	Certificate
Wind technology	Certificate/Degree
Photovoltaic technology	Certificate/Degree
Advanced Green Manufacturing Technology	Degree

Linn-Benton-Lincoln County Area Local Team

Steve Bekofsky, Director, Community Services Consortium
 Sharee Cooper, Operations Manager, Community Services Consortium
 Jerry McGuire, Weatherization Construction Trainer, Licensed Contractor in both California and Oregon, OECA certified in all 3 REAP competency areas,
 Dennis Feeney, Project Instructor, BPA Energy Auditor certified through NEEI / Lane Community College in energy management & renewable energy, OECA certified in Shell Tech 1
 Clay Martin, Workforce and Education Director, Community Services Consortium
 Gary Price, Associate Dean, Linn-Benton Community College
 Sue Hankins, Manager, Oregon Employment Department
 John Pascone Albany Millersburg Economic Development
 Caroline Bauman, Economic Development Alliance
 Roger Ebbage, Energy Management Program Coordinator, Lane Community College
 Steve Jole, OECA Training and Technical Assistance Committee.

Training Name	Certificate/degree(s)
8 wk Intensive Intro to Weatherization	Lead safe work practices, opportunity for BPI, first aid/CPR, OSHA safety training
Weatherization Tech 1 week	Tech 1 certificate
Skill specific workshops	Certificate of completion
Lead safety workshop	LSWP Certification
OSHA Safety	OSHA Certification
Blower door and Duct diagnostics	Certificate of Completion

Lane County Area Local Team

Chuck Forster, Executive Director, Lane Workforce Partnership.
 Robin Scott, Program Manager, Lane Workforce Partnership
 Richard Jackson-Gistilli, Adjunct Instructor, Energy Management Program, Lane Community College
 Jim Pfarrer, Manager, Oregon Employment Department One-Stop
 Sonya Christian, VP, Academic and Student Affairs, Lane Community College
 Roger Ebbage, Energy Management Program Coordinator, Lane Community College
 Mike McKenzie-Bahr, Community and Economic Development Coordinator, Lane County

Training Name	Degree(s)
Energy Management Technician	AAS

Rogue Valley Local Area Team

Jim Fong, Executive Director, The Job Council

Ron Fox, Executive Director for the Southern Oregon Regional Economic Development Inc.,

Mark Von Holle, VP of S&B James Construction Management,

Buzz Thielemann, of RHT Energy Solutions.

Training Name	Degree(s)
Solar Grid Certification Training	NABCEP Certif.

Clackamas County Local Area Team

Kim Parker, Executive Director, Workforce Investment Council of Clackamas County

Jan Filgas, Director of Programs, Workforce Investment Council of Clackamas County

Ray Hoyt, Director Customized Training, Clackamas Community College

Carrie Kraten, Project Coordinator, Grant Manager Customized Training and Development,
Clackamas Community College

Catherine Nopp, Director Workforce Programs, Clackamas Community College

Training Name	Degree(s)/Certifications
Leadership in Energy and Environmental Design (LEED)	10 hours of instruction on Green Home Design and Construction, materials and further guidance on pursuing their certification
Sustainable Home Professional Certification (SHP) – Module 5, Health and Resource.	SHP has been approved by the U.S. Green Building Council’s Education Provider Program as a 400-level mastery course and is a registered program of the American Institute of Architects (AIA) Continuing Education System (CES).
Residential Green Building and the Building Codes.	This course was co-created by Earth Advantage Institute, the Oregon Home Builders Association, through an Oregon State Building Code Division grant
EPA Lead Abatement Worker Training	Certificate of Completion - Accredited by Oregon’s Lead-based Paint Program (LBPP)

Rural Oregon Local Area Team (The Oregon Consortium and Oregon Workforce Alliance)

Samuel Johnson, Program Specialist, The Oregon Consortium and Oregon Workforce Alliance
Pete Bober, Director of Workforce and Community Education, Umpqua Community College
Dr. Susan J. Wolff, Chief Academic Officer, Columbia Gorge Community College
Arthur J. (Art) Hill, MBA Vice President, Economic Development, Director, Small Business Development Centers, Blue Mountain Community College
Stephen Schoonmaker, Ed.D., Vice President of Instruction, Clatsop Community College
Dan Lara, Dean of Math and Science Division, Linn-Benton Community College
Rena Denham, Associate Dean, Rogue Community College
Valerie Martinez, Vice President of Instruction, Southwestern Oregon Community College
Lori Gates, Ph. D., Chief Academic Officer, Tillamook Bay Community College
Nancy Jumper, Program Manager, Business, Employee & Professional Development, Central Oregon Community College
MaryJeanne Kuhar, Dean of Instruction, Central Oregon Community College
Julie Gassner, Director, MTC Works
Norm Gershon, President, Umpqua Training & Employment, Inc.
J.J. McLeod, CEO, South Coast Business Employment Corporation
Marty Miller, Program Director, Mid-Columbia Council of Governments
Tom Moore, Executive Director, Central Oregon Intergovernmental Council
Deborah Hayward, Director for Workforce Development, Community Action Program of East Central Oregon
Teri Simonis, Executive Director, Training & Employment Consortium

Training Name	Certificate/degree(s)
Oregon Green Tech Certificate Program	The Oregon Green Tech Certificate

Please note that in addition to the team members listed above, each local project team will include at least one labor representative with expertise in the targeted green industry.

Greening of Oregon's Workforce

Abstract

Applicant Name: Oregon Workforce Investment Board / State of Oregon Department of Community Colleges and Workforce Development
Project Title: Greening of Oregon's Workforce
Funding Level: \$5,383,568
Areas to Be Served: State of Oregon
Area Type: Entire state: urban, suburban and rural areas

Synopsis of the Sector Plan

Oregon is recognized internationally as a leader in renewable energy, clean technology, sustainable building practices, environmental laws, cutting-edge mass transit systems, and for our overall 'green' lifestyle. As the world seeks innovative solutions that will ensure a sustainable future, it looks here—because *Oregon is where sustainability is taught, tested, and practiced.*

With our green reputation firmly established, we are focused on creating dramatic economic growth featuring family wage jobs in renewable energy and energy efficiency. This *Greening of Oregon's Workforce* project, submitted by the Oregon Workforce Investment Board (OWIB) develops a statewide energy sector strategy guiding local workforce training needed to support that economic growth.

Oregon's Energy Sector Strategy is to train workers in the energy efficiency and renewable energy industries that are part of the state's overall energy policy, including occupations which have long term demand, offer the potential for high wage, career pathway jobs, and support local sourcing and innovation. The Local WIBs will be utilizing evidenced-based sector approaches, based on the research of the Aspen Institute. They are all highly skilled in implementing sector partnerships that increase wages for individuals while filling specific industry demand and creating career pathways out of poverty.

Supporting the Energy Sector Strategy is the development of *Green Jobs Networks of Excellence* under Oregon's House Bill 3300 Green Jobs Act. The Networks are sector strategies that will bring together industry, training and workforce programs, economic development and others to focus on specific segments of the green economy. The first Networks to be developed will follow the SESP target industries of renewable energy, green building practices, and electric or alternative fuel vehicles.

Targeted Industries. The targeted industries are:

Renewable Energy, including the renewable electric power industry and biofuels. Several solar energy manufacturers are building or expanding in Oregon. Further, Oregon will also have one of the largest planned wind farms in the world, and strong statewide Renewable Fuel Standards have established a strong local market for biofuels.

Green Building Practices, including the energy-efficient building, construction, and retrofit industries; the deconstruction and materials use industries; and the energy efficiency assessment industry serving residential, commercial, or industrial sectors. The housing industry downturn has led to an increase in remodeling, retrofitting, and other services to improve energy efficiency. State and federal tax incentives are also generating significant work.

Advanced Drive Train and Energy Efficient Vehicles. Oregon was named as a test market for new all-electric cars by the Electric Transportation Engineering Corp. (eTec). Oregon also has underway development of an electric vehicle charging network, battery cell and pack manufacturing, and electric vehicle manufacturing.

Supply Chain Manufacturing. Oregon has a solid manufacturing base, especially in computer and electronic products. The large existing workforce in Oregon’s semiconductor industry makes Oregon an ideal location for solar PV manufacturing companies. The supply chain can be tapped in the manufacture of solar PV cells and modules, smart grid devices, green building materials, and other components for the clean energy economy.

Workforce and Industry Needs that Will Be Addressed. Oregon is in the midst of a deep recession. Current projections indicate the economy will not regain pre-recession employment levels until 2013. Oregon’s unemployment rate soared from a pre-recession level of less than 5.5 percent in late 2007 to 12.2 percent in August 2009, and has been among the highest in the nation for months. Workforce needs are clearly around getting workers back to work.

Oregon is one of three states with "large and fast-growing clean energy economies" (Pew Charitable Trust, Clean Energy Economy, June 2009). Even in the recession, these clean energy and green building practices industries are continuing to grow and to hire workers. Once the recession ends, the demand in the industries is projected to increase dramatically.

Proposed Training Activities. The targeted industry sector focus areas, associated training, and certificates are listed below. In addition, as other programs are accredited to do this training, the local teams will work with them, such as the LIUNA Weatherization Installer Technical Training.

Renewable Energy Industry and Supply Chain Manufacturers	
Training	Certificate/degree
Solar Voltaic Manufacturing Technology	AAS
Community College Engineering programs	Engineering AAS
Wind technology – community college programs	Certificate/Degree
Photovoltaic technology – community college programs	Certificate/Degree
Energy Management Technician	AAS
Solar Grid Certification Training	NABCEP Certif.

Green Building Practices and Supply Chain Manufacturers	
Weatherization Training	Certificate/degree
8 wk Intensive Intro to Weatherization	Certificate & OSHA
Weatherization Tech 1 week	Tech 1 certificate
Skill specific workshops	Certificate of completion

Weatherization, Green Bldg. & Retrofit Trainings	
Lead safety workshop / EPA Lead Abatement Training	LSWP Certification
OSHA Safety	OSHA Certification
Leadership in Energy and Environmental Design (LEED) - 10 hours of instruction on Green Home Design and Construction	LEED Certif.
Sustainable Home Professional Cert. (SHP) – Module 5, Health & Resource.	U.S. Green Building Council; American Inst. of Architects
Residential Green Building and the Building Codes.	Earth Advantage Institute, OR Home Builders Assoc.
Green Building & Retrofit Training	
Certificate/degree	
Engineering programs – CC	Engineering AAS
Architecture – with sustainable design and construction concepts	AAS
Sustainable Building – builds on architecture degree	1 yr certificate
Building Construction	AAS
Facilities Maintenance Tech and Industrial Tech	AAS
Sustainability Health and Safety	AAS
Sustainable Building Advisor	National Certif. non-credit
Building Analyst and Envelope Prof.	BPI Certif. non-credit

Supply Chain Manufacturers for above and for Electric Vehicles	
Training	Certificate/degree
Green Process Technology – community college program	Certificate
Advanced Green Manufacturing Technology	Degree
Oregon Green Tech Certificate Program- community college	Certificate

Priority Populations to Be Served. Priority populations to be served are (1) unemployed workers, (2) individuals residing in high poverty areas seeking pathways out of poverty, and (3) incumbent workers in need of updated training to enter or advance in one of the target industries.

Projected Training and Placement Outcomes. Overall, the Greening of Oregon’s Workforce project will serve at least 1,247 individuals, all of whom will enter training. Of these, at least 1,060 will complete training related to the targeted industries, and 1,039 will earn a degree or certificate. The majority of certificates and degrees will be granted by Oregon’s community colleges. Of the individuals who complete education and training, 898 will enter unsubsidized employment, of whom 811 will enter unsubsidized employment that is related to the training. Of those entering employment, 848 will retain employed status at the first and second quarters following initial placement.

No counties served by the project are on the list of counties impacted by automotive-related restructuring.