

Appendix 1: Oregon CCGI Governance Teams

Oregon Community College Green Initiative Governance and Staffing Directory

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**Oregon Community College Green Initiative
Governance and Staffing Directory**

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**Oregon Community College Green Initiative
Governance and Staffing Directory**

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**Oregon Community College Green Initiative
Governance and Staffing Directory**

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Governance and Staffing Directory**

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Appendix 2: Methodology

In early 2009 Oregon's Community College Presidents advocated for the development of an assessment, analysis, and planning process on "Green" education and training at community colleges across the state. Dr. Mary Spilde, President, Lane Community College, and Nan Poppe, President, Portland Community College Extended Learning Campus, were appointed liaisons to the colleges and CCWD in developing the Initiative. Drs. Spilde and Poppe attended a joint meeting of CIA-CTE Deans on Friday, May 8, 2009. The CIA-CTE Dean members voiced their support and a "core" team was identified. Subsequently, each college appointed a "green" team lead. Brenda Brecke from Coos Bay, Oregon, was hired as project manager for the initiative which was funded through the CCWD Strategic Fund.

Working with the college "green team" leads, core team, and staffing team, the project manager developed templates for gathering current "green" education and training offerings at the 17 colleges and potential future "green" education and training strategies and ideas. A "Green" literature review was conducted by Cylvia Hayes, 3E Strategies, Bend, Oregon.

Working with the various teams the project manager developed the Green Framework including guiding principles, goals, policies, resources, etc. The team met from May through August 2009 through conference calls and in person meetings on June 10 -11, July 14, and August 4. The content of the Green Framework were review and vetted by the teams identified in Appendix 1.

Appendix 3: Compiled Current Green Training at Oregon's Community Colleges

College: All _____

Current Training Assessment for Green Planning

Program Area (Choose all that apply)	Description of current program, courses, activities. Include number of students served and whether credit or non credit	Who are your students?	Partners and their contributions and commitments? Include any known leveraged resources Please list.	Additional information in targeted areas (Please mark and describe all that apply.)
1) Nascent Renewable Energy Jobs These include those jobs in the infancy stage of development such as in wave, geothermal, and biomass	Renewable Energy Tech AAS Clackamas in approval (45 s/y) TVCC -Adobe Brick Recycling-Noncredit 40 students COCC- Taskforce evaluating green jobs in the area LBCC-Automotive Tech AAS/Certificate Alternative Fuels-Electric vehicles LCC- Water Conservation Tech AAS 30 students yr BMCC- SBDC working with 5-10 businesses to develop green technologies and markets; Hosting OSU workshops on bio products 80 attendees	CC, DL,HS CW CE CC,DL CC Business Owners Contractors Public agencies	NW Biofuels Assoc, PGE, Amer Hydrogen AssocNW, OIT, UM, OSU, Clackamas County Sustainability Office, Perkins funds and Pathways to Sustainability funds None COIC, Workforce OR, 3E Strategies Toyota, Honda Eugene Water and Electric Board OSBDCN, OSU	<input checked="" type="checkbox"/> Career Pathways (Clackamas) <input type="checkbox"/> Bridge Programs for ABS <input type="checkbox"/> Career Pathways Certificates (Clackamas will evolve) <input type="checkbox"/> Career Pathways Roadmaps (Clackamas Under development), LBCC, LCC <input type="checkbox"/> Other K-12 connections (Clackamas – dual credits to manuf), LBCC <input type="checkbox"/> Program of Study (Clackamas) LBCC, LCC <input type="checkbox"/> Short term trainings (TVCC), BMCC <input type="checkbox"/> Apprenticeships <input type="checkbox"/> Career Readiness Certificate <input checked="" type="checkbox"/> Distributed Education (Clackamas some online classes) BMCC <input type="checkbox"/> Small Business Development BMCC <input type="checkbox"/> Contracted Training
2) Emerging Renewable Energy Jobs These include the jobs that are on the ground and increasing such as in solar,	Clackamas-Wind turbine tech articulated with CGCC 20 students TVCC- Waste/water recycling and wetlands preservation. Credit classes in Nat Res and Ag degree Prog in gr landscaping, pesticides, irrig,	CC, DL, CW	Same companies/CGCC Private citizen with recycling pond, college and armory share wetland area working on dev gr laboratories BLM	<input checked="" type="checkbox"/> Career Pathways (Clackamas, PCC, LCC, Chem) <input type="checkbox"/> Bridge Programs for ABS <input type="checkbox"/> Career Pathways Certificates (Clackamas will evolve) <input checked="" type="checkbox"/> Career Pathways Roadmaps

College: All _____

Current Training Assessment for Green Planning

Program Area (Choose all that apply)	Description of current program, courses, activities. Include number of students served and whether credit or non credit	Who are your students?	Partners and their contributions and commitments? Include any known leveraged resources Please list.	Additional information in targeted areas (Please mark and describe all that apply.)
wind, utilities	<p>watershed management and noxious weed 30 students a year</p> <p>PCC-Electronic Eng Tech AAS and 1 yr cert – Renewable Energy Systems Option; Micro Electronics Eng Tech AAS and 1 year cert-Option in Solar Manufacturing, Solar Voltaic Career Pathways Cert</p> <p>TBCC- Building a solar water heater course non-credit 12 students</p> <p>Clatsop- Living Machine (Low Energy Waste treatment); Environmental Science 202 credit 20 students</p> <p>CGCC Renewable Energy AAS & 1yr cert two entry/exit pts/admit 40 students in each cohort. Articulation agreements w/LBCC & Clackamas</p> <p>LBCC Mechatronics AAS connected to CGCC Wind Energy 24 students 08-09</p> <p>LCC-Licensed Renewable tech 28 non credit students</p> <p>BMCC- referral to CGCC Wind Tech</p> <p>Chem EET credit courses in renewable energy including solar and 74% match with CGCC</p>	<p>CC,DL,CW</p> <p>CE</p> <p>CC,CW</p> <p>CC</p> <p>Some with BS and higher</p> <p>CC,DL,HS,CW</p> <p>CC,K-12</p> <p>CC , Energy companies</p> <p>CC,DL,CW,CE</p>	<p>Vistas, Wide variety of other RE Energy Companies WIA</p> <p>Solar World Wide variety of manufacturing related companies WIA</p> <p>CH2M Hill, City of Astoria, Pacific U, US Parks, Oregon Garden OSU</p> <p>1.4m from industry leveraged 1.67m from DOL, 500k CCWD and Gov Strategic WKFC fund, Carl Perkins, Tides Foundation and State of Wa for needs assessment</p> <p>NW Food Processors ASSN(recruitment scholarships, internships)Pacific Corp and Viper NW funding, Concept Systems donated and uses contracted training</p> <p>State JATC Industry training agent fee OSEIA, ODOE,Or Energy Trust</p> <p>CGCC, PGE,Pacific Power, WIAB</p> <p>Intel, Cisco, Micron, Tek</p>	<p>(Clackamas Under development)CGCC,LBCC,LCC,PCC)</p> <p><input checked="" type="checkbox"/> Other K-12 connections (Clackamas – dual credits to manuf),LBCC,LCC</p> <p><input checked="" type="checkbox"/> Program of Study (Clackamas,TVCC, CGCC)LBCC,LCC, Chem</p> <p><input checked="" type="checkbox"/> Short term trainings –TBCC,LBCC</p> <p><input type="checkbox"/> Apprenticeships LCC</p> <p><input type="checkbox"/> Career Readiness Certificate</p> <p><input checked="" type="checkbox"/> Distributed Education (Clackamas some online classes) CGCC in development,LCC</p> <p><input type="checkbox"/> Small Business Development</p> <p><input checked="" type="checkbox"/> Contracted TrainingCGCC,LBCC</p>

College: All _____

Current Training Assessment for Green Planning

Program Area (Choose all that apply)	Description of current program, courses, activities. Include number of students served and whether credit or non credit	Who are your students?	Partners and their contributions and commitments? Include any known leveraged resources Please list.	Additional information in targeted areas (Please mark and describe all that apply.)
	wind program	,PA	scholarships and equipment	
3) Energy Efficiency Jobs These include jobs that involve increasing efficiency of the built environment such as jobs in weatherization, energy auditors, and some trades	<p>OCCC-Trainings for bus owners on tax credits for energy efficiencies</p> <p>TVCC-Weatherization Training noncredit CE</p> <p>PCC-Architecture AAS Sustainable design and construction concepts embedded; Sustainable Building 1 yr cert <i>builds on Arch program by combining additional coursework in sustainable design, products, material and construction with env science, sociology, and ethics</i>. Building Construction AAS, Facilities Maintenance Tech (FMT) and Industrial Tech AAS and 1 yr HVAC cert ; Interior Design AAS –in process of integrating sustainability practices through curricula</p> <p>Chem- Apprenticeships (Electrician, Heating, Ventilation, Air-Cond and HVAC) renewable energy activities credit</p> <p>Clatsop-Weatherization and Lead Removal non credit; Historic Preservation and Restoration credit 15 students per year</p> <p>MHCC- Sustainable Building Advisor National Certification non credit; Building Analyst and Envelope Prof non-credit (prepares students for the Building Performance Institute cert testing</p>	<p>CE</p> <p>CC,DL,CW</p> <p>CC,DL,CW</p> <p>CW CC/CW/DL</p> <p>CW DL,CW</p>	<p>Working on partnership with Harney-Malheur Community Action</p> <p>NSF, Earth Advantage, City of Portland, Architectural firms and public agencies related to sustainable design and development</p> <p>Community businesses</p> <p>Area small business Advisory Board & local businesses</p> <p>Business and Industry Incumbent Workers skill upgrade Partner with WIA</p>	<p><input checked="" type="checkbox"/> Career Pathways: PCC/RCC/LCC</p> <p><input type="checkbox"/> Bridge Programs for ABS</p> <p><input checked="" type="checkbox"/> Career Pathways Certificates/RCC</p> <p><input checked="" type="checkbox"/> Career Pathways Roadmaps/RCC, LCC</p> <p><input checked="" type="checkbox"/> Other K-12 connections?RCC,LCC</p> <p><input checked="" type="checkbox"/> Program of Study Clatsop(Historic),RCC,LCC</p> <p><input checked="" type="checkbox"/> Short term trainings TVCC, Clatsop (Weatherization), MHCC, COCC,LCC</p> <p><input checked="" type="checkbox"/> Apprenticeships Chem</p> <p><input checked="" type="checkbox"/> Career Readiness Certificate RCC,LCC</p> <p><input checked="" type="checkbox"/> Distributed Education BMCC</p> <p><input checked="" type="checkbox"/> Small Business Development (OCCC)<BMCC</p> <p><input type="checkbox"/> Contracted Training</p>

College: All _____

Current Training Assessment for Green Planning

Program Area (Choose all that apply)	Description of current program, courses, activities. Include number of students served and whether credit or non credit	Who are your students?	Partners and their contributions and commitments? Include any known leveraged resources Please list.	Additional information in targeted areas (Please mark and describe all that apply.)
	<p>COCC-Sustainable Building Advisor Non Credit; Home Energy Auditor for prep for Home Energy Analyst (BPI); Performance Tested Comfort System (PTCS) Duct Sealing Training planned and Performance Air Testing and Sealing training planned (July)</p> <p>RCC- Construction Tech AAS and CP cert (dev retrofit program for energy eff) Incorporate gr and sustainability in all prog courses LEED cert, New products seminar –SIPS</p> <p>LBCC-Mechatronics AAS SEE ABOVE</p> <p>LCC-Energy Management Tech AAS 30 students; Renewable Energy Tech AAS 30 students; Resource Conversation Management AAS 30 students; Summer Youth Academy in Clean/Green Tech 20-25 students credit; Sustainability HS Pathways to Postsecondary; Energy Management Training-energy efficiency, renewable energy system installation and design, and green construction</p> <p>BMCC SBDC referring contractors to Or Energy Trust non credit 5-10</p>	<p>CC,</p> <p>CC</p> <p>CC</p> <p>CC</p> <p>At risk youth</p> <p>Low income/DL</p> <p>Contractors</p>	<p>Energy Trust 3000/yr, COCC Foundation Turner Fund 5000 /yr (Scholarships) Better Bricks \$800/yr Conservation Services Group and ETO</p> <p>Energy Star, Earth Advantage, Energy Trust</p> <p>EWEB \$136,000</p> <p>Fees from customized training</p> <p>Lane Workforce Partnership \$198,793 for 3 academies</p> <p>Lane WkF Partnership \$180,000 for training and \$450,000 for paid wk exper</p> <p>OR Energy Trust</p>	

College: All _____

Current Training Assessment for Green Planning

Program Area (Choose all that apply)	Description of current program, courses, activities. Include number of students served and whether credit or non credit	Who are your students?	Partners and their contributions and commitments? Include any known leveraged resources Please list.	Additional information in targeted areas (Please mark and describe all that apply.)
4) Greening of existing jobs These include jobs where workforce need skills upgraded such as plumbers trained in solar hot water installation, carpenters trained in green building techniques and materials, landscapers trained in green landscaping techniques and plants.	Clackamas-Horticulture AAS and one year cert, Irrigation Tech CP cert, Landscape AAS, Landscape Practices one year certificate, Plant Healthcare CP cert 200 students TVCC- Pesticide workshop CE 40 students a yr, Intro to Lean Manuf non credit Biz C -9 students, Wildland Fire Training CE 750 students per year PCC Automotive AAS , Alternative Fuels Option- integrating focus on hybrids and electric autos and light trucks Clatsop-Meteorology 40 students MHCC Green Building Principles- non credit SOCC-Photovoltaic Entry Level Certificate non-credit COCC-NABCEP Entry Level PV Solar Exam Prep course for Electricians non credit 26 students LBCC –Metronics /RHVAC SEE ABOVE LCC-Energy Management Certification Program (certificate) (non-credit)18 students; Building Operator Certification (non-credit) 40 students; Bonneville Power Administration Residential Energy Auditor and Inspector Certification (non-credit) 27 students; Sustainable Building Advisor Program (certificate) (non-credit)20 students; State apprenticeship Program for PV and solar water heater installation (non-credit/credit) 18 active apprentices; Sustainability Coordinator AAS degree program; Culinary Arts and Food Service Management AAS has a strong focus	CC, DL, CW Ag businesses Small Businesses CC,DL,CW CW CW CW,DL Industry HVAC elect/plumbers BPA and utility CW Architects,eng, developers Electricians/plumbers	BLM,USFS, Or/Id State Dept of Lands, local structure fire agencies Business and Industry RCC grant Contracted with Lane CC NW Public Power Assn Bonneville Power \$1200	<input checked="" type="checkbox"/> Career Pathways -Clackamas – Statewide apprenticeship cert and degrees, PCC,BMCC _____ Bridge Programs for ABS <input checked="" type="checkbox"/> Career Pathways Certificates (Clackamas listed), Clatsop (Historic), BMCC <input checked="" type="checkbox"/> Career Pathways Roadmaps Clackamas BMCC <input checked="" type="checkbox"/> Other K-12 connections (Clackamas – some dual credit) <input checked="" type="checkbox"/> Program of Study <input checked="" type="checkbox"/> LCC,BMCC <input checked="" type="checkbox"/> Short term trainings TVCC, SOCC, COCC,LCC <input checked="" type="checkbox"/> Apprenticeships TVCC,LCC,BMCC _____ Career Readiness Certificate <input checked="" type="checkbox"/> Distributed Education (Clackamas some landscape classes online),BMCC <input checked="" type="checkbox"/> Small Business Development TVCC,LCC <input checked="" type="checkbox"/> Contracted Training Clackamas, TVCC,MHCC,LCC

College: All _____

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Program Area (Choose all that apply)	Description of current program, courses, activities. Include number of students served and whether credit or non credit	Who are your students?	Partners and their contributions and commitments? Include any known leveraged resources Please list.	Additional information in targeted areas (Please mark and describe all that apply.)
	on sustainability. 50 students /credit; Hospitality Management AAS and 1 yr cert have strong focus on sustainability. 35 students/credit; BOLI Registered Apprenticeship programs (will all be credit in Fall 2009) Approximately 300 students, 60 are in Limited energy technician on line course; Climate Masters at Work – Non-Credit Course included 10 Week 10 students BMCC-Apprenticeship program partners infusing curriculum with green processes and systems	A Business leaders and owners, organizational managers and non-profit managers A, Contractors, Employers	UoOR- Climate Leadership Initiative , BDC contracted with Good Co EWEB, Chambers space and marketing OCCAN, BOLI, Contractors Union trade materials and suppliers,	
5) Curriculum Infusion Modification of curriculum to reflect triple bottom line of sustainability/green principles and practices (i.e., construction, sustainable manufacturing, 'green' apprenticeship models)	Clackamas Credit transfer classes: Pathways to Sustainability, Sustainability & Ethics, Sustainable Cities 75 students Sustainability HS Pathways to Postsecondary TVCC- Credit classes in: Biology several hundred students Physical Science Energy 30 students, Range Management and other Ag certificates and degrees (Soils, crop prod, pesticides, Coop Work Exp) 50 students, Nat Res cert and degrees including Wildfire (GIS, Noxious Weed, Forest Practices, Watershed Management, Fire Effects, Nat Resource Ecology, Coop Work Exp) 20 students PCC- Biology, Environmental Studies, Chemistry, Engineering, Sociology, Philosophy, Writing UCC-Environmental Lit Course Clatsop- Automotive –Alternative Fuel 15	CC, DL, CW CC K, CC, DL, CW CC CC HS, CC, CW	OUS System, CCWD strategic fund Pathways to Sustainability Faculty on sabbatical did research in hydrology/geothermal w Boise S U Soil and water conservation potential partners BLM provides outdoor lab opportunities Individual course in all these disciplines have integrated sustainability/green principles and practices Advisory board Advisory board	<input checked="" type="checkbox"/> Career Pathways PCC, Clatsop (Auto), RCC, Clackamas ____ Bridge Programs for ABS <input checked="" type="checkbox"/> Career Pathways Certificates RCC ____ Career Pathways Roadmaps ____ Other K-12 connections Clatsop (auto), RCC <input checked="" type="checkbox"/> Program of Study TVCC, Clatsop (auto) <input checked="" type="checkbox"/> Short term trainings Clatsop (leadership) ____ Apprenticeships ____ Career Readiness Certificate ____ Distributed Education ____ Small Business Development ____ Contracted Training

College: All _____

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Program Area (Choose all that apply)	Description of current program, courses, activities. Include number of students served and whether credit or non credit	Who are your students?	Partners and their contributions and commitments? Include any known leveraged resources Please list.	Additional information in targeted areas (Please mark and describe all that apply.)
	<p>students per yr: Clatsop Leadership Forum non credit 20 students per yr</p> <p>SOCC-Instructors embedded sustainability assignments CS120, ENG111;</p> <p>COCC- GS 105, CH 105, and CH223 content related to alternative energy , all organic Chem labs are "green" and use Roto-evaporator to recycle solvents</p> <p>SOCC-Phyto remediation as part of the Chem lab curriculum –</p> <p>RCC-Ecoeducational House Project student designed and built house; Construction Tech – greened, Electronics Program –embedded in EET240/241 (use solar panels) Sustainability HS Pathways to Postsecondary</p> <p>LBCC-Hort program has compost bay, emphasis on biofuel production, genetic crop enhancement, and organic production; New science building LEED</p> <p>LCC- Lane is currently administering an EPA grant funded Sustainability Infusion Project in which 20 faculty trainers are training a total of 200 faculty to infuse triple bottom line sustainability into courses. To date, we have trained about 60 faculty. Sustainability infused throughout many classes at Lane including General Chemistry, Organic Chemistry, Biology, Automotive Technology, Diesel Technology, Health, Culinary Arts, Hospitality Management, Religious Studies, Economics, Philosophy, Political Science, ESL, and GED.Lane has an application for sustainability course status which faculty may use to have their classes officially considered a</p>	<p>CC</p> <p>HS CC</p> <p>Contractors /material suppliers /designers</p>	<p>Chamber, Sunset Empire Transportation District, Western Or Waste</p> <p>Rich Gurney Simmons College Greener Ed Materials for Chemists website</p> <p>Home Builders Eagle Point HS</p>	

College: All _____

Current Training Assessment for Green Planning

Program Area (Choose all that apply)	Description of current program, courses, activities. Include number of students served and whether credit or non credit	Who are your students?	Partners and their contributions and commitments? Include any known leveraged resources Please list.	Additional information in targeted areas (Please mark and describe all that apply.)
	<p>"Sustainability" class.</p> <p>BMCC- ENG 269 Nature Lit, Ag infused sustainability courses credit and non credit 100 students, Diesel Tech includes env sound practices 50 students; Civil Eng includes sustainability standards and codes 80 students</p>			
6) Other Green activities	<p>Clackamas CCC Sustainability Series 1500 students/year , Green industry mini summits 50 students/year</p> <p>KCC-Working w/ Local Gr Building Cluster</p> <p>TVCC-CE noncredit –organic gardening, family recycling 20 members, climatology for viticulture 132 participants</p> <p>PCC – Wide array of non-credit Green Living courses</p> <p>Chem-Hort program and courses w/sustain. Practices 30-40 students credit and non credit</p> <p>UCC- Earth Day Celebration 100-150 students; Workshops on Energy Tax Credits</p> <p>Clatsop- CE "Green Makes Cents"; Campus recycling (Student driven)</p> <p>MHCC-Sustainability Health and Safety AAS or 1yr cert; Natural resource Tech AAS or 1yr cert</p> <p>SOCC- CBJT Grant includes lab run on biodiesel. Green awareness and Green Jobs</p>	<p>CC,DL,ABS,E SL,HS,CW CW,DW Community Winemakers and grape growers</p> <p>E,K,CW,CC, DL Community businesses</p> <p>CC/Bus owners</p> <p>CE/CC</p> <p>CC HS/CW CC,HS,CW</p>		<p><input checked="" type="checkbox"/> Career Pathways- Chem, RCC</p> <p>_____ Bridge Programs for ABS</p> <p><input checked="" type="checkbox"/> Career Pathways Certificates</p> <p>_____ Career Pathways Roadmaps</p> <p><input checked="" type="checkbox"/> Other K-12 connections Chem, SOCC</p> <p><input checked="" type="checkbox"/> Program of Study Chem, Clatsop,MHCC,RCC,LCC</p> <p><input checked="" type="checkbox"/> Short term trainings TVCC, UCC, Clatsop, SOCC,COCC,RCC,LBCC,LCC,BMCC</p> <p><input checked="" type="checkbox"/> Apprenticeships LCC</p> <p>_____ Career Readiness Certificate</p> <p><input checked="" type="checkbox"/> Distributed Education RCC</p> <p><input checked="" type="checkbox"/> Small Business Development UCC, COCC,LCC,BMCC</p> <p><input checked="" type="checkbox"/> Contracted Training LCC</p> <p>Note: KCC marked most of the above with no explanation and no reference</p>

College: All _____

Current Training Assessment for Green Planning

Program Area (Choose all that apply)	Description of current program, courses, activities. Include number of students served and whether credit or non credit	Who are your students?	Partners and their contributions and commitments? Include any known leveraged resources Please list.	Additional information in targeted areas (Please mark and describe all that apply.)
	<p>Career Info will be conducted within each community in college district</p> <p>COCC- CE classes :Building Gr, Gr Remodeling, Sustainable Gardening, Xeroscaping, Solar, Straw Bale Construction, Making Biodiesel Business Offerings:Freening your Business, One on One advising Student Purchase renewable Power, Storm water on site, Shuttle bus with bike racks, organic fert, gr cleaning materials, decreased water usage for landscape</p> <p>RCC-member of AASHE and formed a green team who sponsor green events to public, Summer Institute for Green</p> <p>LBCC Water/Wastewater Tech AAS /cert in W/W Plant Operations; 36 students enrolled ; facility transition to better practices –lighting, construction,low-flow plumbing, chemicals, HVAC, transportation, Clean Cities Program Grant for electrical vehicle charging stations and conversion to plugin, National Teach-in on global warming, Sustainability committee formed</p> <p>Lane has many opportunities for students to gain experience with green projects outside of the classroom including a Green Chemistry Club, an active Oregon Student Public Interest Group chapter, and a Learning Garden Club. The Learning Garden Club grows food sold to the cafeteria and Culinary Program. Students in the Renewable Energy Technology program do a solar installation each year. This year will be the 4th year that these installations have occurred and about 6.5 kW of solar PV will be helping to power the college. Students in</p>	<p>CC,faculty,CE</p> <p>CC,DL,CW</p> <p>CC</p>	<p>CC,CW,DW</p> <p>Area Sanitation Co, SOU, County Gov, OSu</p>	

College: All _____

Current Training Assessment for Green Planning

Program Area (Choose all that apply)	Description of current program, courses, activities. Include number of students served and whether credit or non credit	Who are your students?	Partners and their contributions and commitments? Include any known leveraged resources Please list.	Additional information in targeted areas (Please mark and describe all that apply.)
	<p>Lane's Water Conservation program have worked o install a rainwater harvesting system and to retrofit bathroom faucets and showerheads. Lane recently received a grant from our utility for solar covered parking connected to electric vehicle charging stations. The grant funds will be coupled with bond funds to install about 75 kW of solar panels to power charging stations for 36 electric vehicles. The college has completed a comprehensive greenhouse gas emissions inventory and is currently in the process of developing a plan for becoming carbon neutral. CE classes :Permaculture and Organic Gardening. Sustainability is one of Lane's core values</p> <p>BMCC Workshops in solar energy principles using internet video; Led PacifiCorp "Blue Sky" initiative; Hosted sustainable materials use conference w/ city of Pendleton</p>	Home Owners Property owners	<p>Solar Oregon</p> <p>PacifiCorp</p> <p>Regional Governments</p>	

Appendix 4: Compiled Potential Green Training at Oregon's Community Colleges

Potential New /Expanded Green Training and Activities for Community Colleges

College: All-----

Program area (Choose all that apply)	Describe		Target Audience ¹	How you will use any/or all of the following activities in your new or expanded/enhanced program? (See list in the footnote. Please use corresponding letter in footnote in description.)
	Potential New Program Development. Rate each as low, medium, high priority. (Include projected cost)	Expansion or Enhancement of Existing Program. Rate each as low, medium, high priority. (Include projected cost)		
1) Nascent Renewable Energy Jobs These include those jobs in the infancy stage of development such as in wave, geothermal, and biomass	KCC-new programs/classes that would transfer into existing cc Green Programs	KCC-Would like to align with existing cc Green Prog	KCC-CC,DL,H S,CW	H
	OCCC/-would like to be part of a Wave Energy Tech program with other cc		CC,CW, DL	C,F,H, (TBCC and Clatsop have expressed interest)I,J,L
	TVCC- Biomass Tech Low		CC,DL	Comment: If/when employer moves in this direction as second phase of planned development it would rise in priority C,E,J,L
	TBCC- Interested in partnering on wave energy development \$290,000 Low Biomass Conversion Cert and AAS \$180,000 Med		CC,DL, HS,CW	H – Possibly with OSU wave energy research project and/or OCCC and Clatsop H-with OCCC and Clatsop, J-local bio gas methane digester facility in Advisory Group, internships/cwe
	SOCC-Wave Energy AAS \$130,000 startup/\$80,000 ongoing Low		CC,DL, HS,CW	B-Career explor courses and tours for middle and hs students F, J,H with OSU and Oregon Institute of Marine Biology to create pathways to 4yr and grad
	Clatsop- Biomass Tech and Wave Tech in partnership w/TBCC &OCCC \$250,000 High	Clatsop Ocean Wind Tech \$1m High	CW,CC, DL	C,E,F,G,H,J,L
	TBCC –Ocean Wind Tech High	MHCC Bio-diesel Fuel technology addition to Sustainability Health and Safety \$50,000 Med	CC,HS, CW	F –add to current automotive E-add for SHS
	MHCC-Hybrid &Electric Car			

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 2 Categories include (A) Career Pathways Bridge Programs for ABS (B) Connections with K-12, (C) Career Pathways Certificate (D) CRC, (E) short term trainings; (F) Program of Study (G) Distributed Education; (H) Partnerships with other Colleges; (I) Partnerships with WIA; (J) Partnerships with businesses/industry; (K) Green Literacy (Greening curriculum across disciplines) (L) Small Business Development . *Please use letters in your descriptions to indicate which category.*

College: All----

Potential New /Expanded Green Training and Activities for Community Colleges

Program area (Choose all that apply)	Describe		Target Audience ¹	How you will use any/or all of the following activities in your in your new or expanded/enhanced program? (See list in the footnote. Please use corresponding letter in footnote in description.)
	Potential New Program Development. Rate each as low, medium, high priority. (Include projected cost)	Expansion or Enhancement of Existing Program. Rate each as low, medium, high priority. (Include projected cost)		
	Tech AAS Startup \$250,000 Med		CW,DL	E,H,J
	COCC-Geothermal Installer Cert developed and could be hosted \$10,000; AS Renewable energy Engineering \$5000 High	COCC-Expansion on articulations with OSU, OIT	CC,HS	BCHJ
	RCss Biomass Management Tech \$150,000 High; EcoFarming \$150,000 high	<i>LBCC-Expand Mechatronics offerings in Wind and Solar Voltaic w cert and hands on training/add 24 student section \$350,00 equip,\$60,000 startup salary and \$35,000 ongoing</i>	CC, DL,CW	E,F,J E,F
	LCC-Wind Turbine Manufacturing Cost :TBD; PV Manufacturing Cost TBD		CC,DL,H S,CW	A,B,C,E,G,H, partnering with CGCC, Chem, and LCC
	BMCC- Biomass Energy Generation Med Cost TBD		CC,DL,A BS,ESL,H S,CW	A,B,E,F,H,I,J Siemens Ag
	RCC-Biomass Management Tech		CC,DL,H S,CW	B,E,G,H,J, K,L
	Chem- Process Operations AAS: Biofuels Refining Certificate – develop new certificate to support biomass		CC,DL,A BS,ESL, HS,CW	B,C,E,H,I,J,K,L Process Tech supports many industry sectors including food processing, advanced manufacturing, advanced woods, agri-business, beverage distilling, Program will partner with LBCC to leverage resources and provide greater range of job opportunities for students

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College: All----

Potential New /Expanded Green Training and Activities for Community Colleges

Program area (Choose all that apply)	Describe		Target Audience ¹	How you will use any/or all of the following activities in your in your new or expanded/enhanced program? (See list in the footnote. Please use corresponding letter in footnote in description.)
	Potential New Program Development. Rate each as low, medium, high priority. (Include projected cost)	Expansion or Enhancement of Existing Program. Rate each as low, medium, high priority. (Include projected cost)		
	transportation fuel refining 2.5m in process tech equipment , \$230,000 fuel lab equipment \$350,000 program development \$250,000 m/s, and \$3.2 m in construction costs			
2) Emerging Renewable Energy Jobs These include the jobs that are on the ground and increasing such as in solar, wind, utilities	Clackamas- Solar Thermal 1yr cert \$385,000(3 yr)High; Solar PV 1year cert \$385,000 (3year)High; Wind/Utilities 1 yr cert \$265,000 (3yr)High KCC-Construction Management Degree \$177,000startup/46,500 on going costs High OCCC-Small wind generators installation training TVCC-Solar Voltaic Tech and Basic Manufacturing Cert,	<i>UCC-Solar Manufacturing 1yr cert (redesign project of Digital Systems Tech prog) 15 students initially, \$75,000 Med; Green Construction Certs pathways cert into Green Construction Specialist or AAS, 15 students initially,\$95,000 High</i>	Clack- CC,CW,D L,HS CC,DL ,CW,HS CC,DL, ABS,HS ,CW KCC- CC,DL,H S,CW CC,DL, CW Business &land owners	Clackamas- B- dual enrollment, C, F,I,J adv com,, Utility Training Alliance <i>UCC-B,J,F,I</i> A-incorporate Intro to Trades curriculum B,I,J Home Builders Association C,E,I,J,H E,I,L Comment:This is a natural program for TVCC based on 300 days sun and planned location of renewable energy company specializing in solar as well as growth solar in Caldwell Potential partner with Idaho Power

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2 Categories include (A) Career Pathways Bridge Programs for ABS (B) Connections with K-12, (C) Career Pathways Certificate (D) CRC, (E) short term trainings; (F) Program of Study (G) Distributed Education; (H) Partnerships with other Colleges; (I) Partnerships with WIA; (J) Partnerships with businesses/industry; (K) Green Literacy (Greening curriculum across disciplines) (L) Small Business Development . *Please use letters in your descriptions to indicate which category.*

Potential New /Expanded Green Training and Activities for Community Colleges

Program area (Choose all that apply)	Describe		Target Audience ¹	How you will use any/or all of the following activities in your in your new or expanded/enhanced program? (See list in the footnote. Please use corresponding letter in footnote in description.)
	Potential New Program Development. Rate each as low, medium, high priority. (Include projected cost)	Expansion or Enhancement of Existing Program. Rate each as low, medium, high priority. (Include projected cost)		
	<p>\$250,000 start up and \$150,000 per year for 4 years HIGH (TOP PRIORITY)</p> <p>TBCC- Alternative Energy Cert \$80,000 High Interested in partnering on wind energy tech(cert /AAS) \$220,000 High</p> <p>Chem-Wind Tech AAS (redesign/add) \$115,000 equip, \$2700 curriculum dev \$3000 m&S, 15 stud 1st yr 20 2nd yr, 25 3rd ; Photovoltaic Tech AAS (courses and potential degree and cert) \$81,000</p> <p>SOCC-Non Credit energy auditors training \$10,000 start up/\$2500 per class 3 times a yr High; Short term training for electrical union for photovoltaic panel installation \$10,000 start up/\$2500 per class non credit High</p>	<p><i>TVCC- Water/Wastewater Tech \$100,000 start up and \$70,000 for 4 yrs Med</i></p> <p><i>Living Machine (Water Treatment) 2.5 m Med</i></p>	<p>CC,DL, ABS,ESL,</p> <p>CC, DL, HS, CW</p> <p>CC, DL, HS,CW</p> <p>CC, DL,CW</p> <p>CC,CW</p> <p>DL,CW</p> <p>A</p>	<p>and allow us to articulate with CGCC Wind Energy Tech Program A,C,D,F,P,J <i>Partner with Malheur Water District, OSu Extension Comment: Local processing co planning expansion estimates of 100 new jobs and 100 retraining jobs – this priority would raise when/if happens</i></p> <p>H-OCCC and Clatsop could feed into Alternative Energy AAS(eg CGCC) J –Advisory cwe</p> <p>H- Possible w/OCCC and Clatsop, J</p> <p>B,C,E,H,I,J,K</p> <p>C,E,F,J,L</p> <p>J- with Oregon Coast Community Action (ORCCA)</p> <p>Expand partnership with Apprenticeships Trust</p>

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College: All-----

Potential New /Expanded Green Training and Activities for Community Colleges

Program area (Choose all that apply)	Describe		Target Audience ¹	How you will use any/or all of the following activities in your in your new or expanded/enhanced program? (See list in the footnote. Please use corresponding letter in footnote in description.)
	Potential New Program Development. Rate each as low, medium, high priority. (Include projected cost)	Expansion or Enhancement of Existing Program. Rate each as low, medium, high priority. (Include projected cost)		
	CGCC -Develop Renewable energy business management strand G/H/J/L/ High Mechanical Energy Engineering Tech AAS 18 Students start up, 34 following yrs start up/1 st yr \$135,000 Med COCC- Develop NABCEP exam prep courses for solar PV and Solar thermal installers \$4000 each (for electricians and plumbers), AAS Solar Energy Tech \$600,000 start up and \$520,000 to maintain MED RCC-Energy Tech \$150,000 High BMCC Wind Tech Prep program for early steps in wind Costs TBD Med; Solar Tech Prep for solar tech Cost TBD Med	CGCC -Develop high voltage & Safety module High; Secure commercial sized nacelle High Purchase residential scale wind turbine and ground mounted solar system Med COCC-Expand NABCEP to instruction for non-electricians non credit \$6500 Med LCC-Distance PV and solar thermal training Expand to include PV2 and solar thermal fund and hands on training \$220,000 High	CC,CW CC CC CC,DL,HS DL,CW CC,DL,HS,CW CC,HS,DL,CW CC,DL,CW	F,H,I,J J,C E,I,J B,C, maybe H E,F,G,H,I,J,L A,C,D,E,H,I,J,L

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² Categories include (A) Career Pathways Bridge Programs for ABS (B) Connections with K-12, (C) Career Pathways Certificate (D) CRC, (E) short term trainings; (F) Program of Study (G) Distributed Education; (H) Partnerships with other Colleges; (I) Partnerships with WIA; (J) Partnerships with businesses/industry; (K) Green Literacy (Greening curriculum across disciplines) (L) Small Business Development . *Please use letters in your descriptions to indicate which category.*

Potential New /Expanded Green Training and Activities for Community Colleges

Program area (Choose all that apply)	Describe		Target Audience ¹	How you will use any/or all of the following activities in your in your new or expanded/enhanced program? (See list in the footnote. Please use corresponding letter in footnote in description.)
	Potential New Program Development. Rate each as low, medium, high priority. (Include projected cost)	Expansion or Enhancement of Existing Program. Rate each as low, medium, high priority. (Include projected cost)		
3) Energy Efficiency Jobs These include jobs that involve increasing efficiency of the built environment such as jobs in weatherization, energy auditors, and some trades	Clackamas- Weatherization short term training \$150,000 (2 yr)Med		CC,DL,ABS,HS,CW	Clackamas A maybe, I, J partner w/local bus and county, L lends itself to start up business
	KCCC-Seminars and cert that would help drive demand for weatherization, energy auditors		CC,DL,HS,CW	(KCCC)A Pathways to other colleges, C,E,H,I,J
	OCCC-Weatherization training for contractors; train energy auditors		SBDC clients, CW	L,E,J
	TVCC-Energy Auditor non credit clinics \$5000 start up, Med		CE,CC,DL,CW	Comment: May lead to certificate or degree program E,I,L
	TBCC Homeowners and Small Business Energy Efficiency training program \$30,000 start up/then \$2000 @class High	LBCC -Add energy efficient and gr energy options for incumbent Mechanics workers \$50,000 in start up and curriculum dev	CC,CE	E,L
	PCC-Facilities Maint AAS w/ Building Commissioner Training option High Electrical Trades-NABCEP Cert Prep, Building Inspection Program: Green Build Insp	PCC Both expansion and enhancement High PCC Program Expansion PCC Expansion and enhancement High	CC,DL,CW,CW CC,DL,	LBCC-Develop materials and equipment for current Mech/RHVAC offerings and add (E) short term options for incumbent worker K

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² Categories include (A) Career Pathways Bridge Programs for ABS (B) Connections with K-12, (C) Career Pathways Certificate (D) CRC, (E) short term trainings; (F) Program of Study (G) Distributed Education; (H) Partnerships with other Colleges; (I) Partnerships with WIA; (J) Partnerships with businesses/industry; (K) Green Literacy (Greening curriculum across disciplines) (L) Small Business Development . *Please use letters in your descriptions to indicate which category.*

College: All----

Program area (Choose all that apply)	Describe		Target Audience ¹	How you will use any/or all of the following activities in your new or expanded/enhanced program? (See list in the footnote. Please use corresponding letter in footnote in description.)
	Potential New Program Development. Rate each as low, medium, high priority. (Include projected cost)	Expansion or Enhancement of Existing Program. Rate each as low, medium, high priority. (Include projected cost)		
	High , Landscape Tech AAS and 1 yr cert option-Green Roof and Wall High	PCC Expansion/enhancement	CW	
	COCC- AAS Energy Management Start up \$200,000 High	<i>Clatsop – Automotive Fuel \$100,000 High</i>	CW	E,I,L
	RCC- Residential Energy Analyst Program \$25,000 Med	<i>LCC-Residential Weatherization and Auditing Cert \$250,000 Highest Priority; Commercial Energy Auditing \$250,000 Highest</i>	CW,DL CC,DL,CW CC,DL,CW,ESL,HS ABE	E,J E,F,G,H,I,J,L E,I,J,L
	BMCC Green Contractor Skill and Lic Program Cluster Cost TBD Med	<i>BMCC Diesel Tech module re.advanced emissions testing Cost TBD High</i>	CW CC,DL,CW	F,I,J,K,L
	RCC-Weatherization Tech \$25,000 H			

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Potential New /Expanded Green Training and Activities for Community Colleges

Program area (Choose all that apply)	Describe		Target Audience ¹	How you will use any/or all of the following activities in your in your new or expanded/enhanced program? (See list in the footnote. Please use corresponding letter in footnote in description.)
	Potential New Program Development. Rate each as low, medium, high priority. (Include projected cost)	Expansion or Enhancement of Existing Program. Rate each as low, medium, high priority. (Include projected cost)		
4) Greening of existing jobs These include jobs where workforce need skills upgraded such as plumbers trained in solar hot water installation, carpenters trained in green building techniques and materials, landscapers trained in green landscaping techniques and plants.	Clackamas-Hybrid vehicle auto CP cert \$240,000 (2yr) High; Sustainable Gr Buildings Training/Cert \$120,000 High; Workforce Skills Upgrade in Gr Building Construction \$150,000 (2yr)?	Clackamas-Solar Thermal CP Cert (Plumbing apprentices) \$150,000 (2yr) High Clackamas-Continual enhancement of sustainability and "green" in all hort and landscape programs \$25,000	CC,DL, ABS,CW,	Clackamas- A could be,C,I,J including Steam/pipe Local280
	KCC-Solar Voltaic certificate for plumber and elect needs		CW,CE	A,B,C,E,G,I,J,K
	OCCC- train for green cleaning and building maintenance, interested in others as listed		CC,HS	A Pathways to other colleges, C, E,H,I,J
	TVCC-Train the trainer in varied renewable energy applications to common existing jobs \$1200 to send two people for training and \$2500 per class including material-2 classes High; Energy Consultant to Biz Center \$18,000 per 5 yrs High	<i>Chem-Automotive tech--fuel cells and hybrid tech 100 students per yr cost \$18,500 High Priority</i>	CW	L,E,H <i>B,C,E,F,H,I,J (note safety/fire training comments)</i>
	TBCC- Summer organic farming-business and production series \$30,000	<i>SOCC-Program of Study with Ecotourism \$130,000 startup/\$50,000 ongoing High</i>	CW	Comment:32 journey level electricians in 0 local elect shops will receive 16 hour course and endorsement in solar electrical installation Partnership with Ontario JATC #MA-6008 and Rogue CC E,L,J
			Small Business	L
			CC,HS, DL,CW	<i>J travel/tourism and econ development entities ,E develop short term trainings for travel/ tourism industry B- career exploration with middle and hs students,F</i>
			?	

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 2 Categories include (A) Career Pathways Bridge Programs for ABS (B) Connections with K-12, (C) Career Pathways Certificate (D) CRC, (E) short term trainings; (F) Program of Study (G) Distributed Education; (H) Partnerships with other Colleges; (I) Partnerships with WIA; (J) Partnerships with businesses/industry; (K) Green Literacy (Greening curriculum across disciplines) (L) Small Business Development . *Please use letters in your descriptions to indicate which category.*

College: All----

Potential New /Expanded Green Training and Activities for Community Colleges

Program area (Choose all that apply)	Describe		Target Audience ¹	How you will use any/or all of the following activities in your in your new or expanded/enhanced program? (See list in the footnote. Please use corresponding letter in footnote in description.)
	Potential New Program Development. Rate each as low, medium, high priority. (Include projected cost)	Expansion or Enhancement of Existing Program. Rate each as low, medium, high priority. (Include projected cost)		
	start up/curriculum 20 students per session Med PCC-Bus Management AAS-Sustainability business practices option High , Civil/Mechanical Eng Tech AAS-Sustainability and Gr Tech option Clatsop- Green Garden (student Driven) COCC- Solar Thermal for Plumbers (prep for exam) RCC -NABCEP training for electricians \$200,000 to fin training and cost reduction to CCs Med LBCC- Sustainable Food Systems AAS /cert \$225,000	PCC Expansion and enhancement – create 4 new courses PCC No new courses –integrated sustainability related courses by other disciplines <i>UCC –Training apprentices electricians fir installation, maint, repair of green related equipment</i> <i>MHCC-Expanded Green Building training</i> <i>LBCC- Alternative Sustainable/Gr Vehicle Fuel Tech</i>	CC,DL, CW CC,ABS, CE A CW CW,DL CC,DL,Hs CC,HS,C W,DL CC,DL,C	J=Current local producers as guest speakers/dem L=SBDC and Econ Dev A,B,E,K <i>J – Electrical Businesses</i> J E<H,I,J C,F

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Potential New /Expanded Green Training and Activities for Community Colleges

Program area (Choose all that apply)	Describe		Target Audience ¹	How you will use any/or all of the following activities in your in your new or expanded/enhanced program? (See list in the footnote. Please use corresponding letter in footnote in description.)
	Potential New Program Development. Rate each as low, medium, high priority. (Include projected cost)	Expansion or Enhancement of Existing Program. Rate each as low, medium, high priority. (Include projected cost)		
	over 2yr	<p><i>expanded/revisited curriculum add tooling and alternative vehicles \$125,000; LBCC will model compost production process for use by agribusinesses \$150,513.20 1 yr</i></p> <p><i>LCC-green Cert for incumbent workers Gr plumber certs \$150,000 Med; AAS degrees Adm Asst, Accounting, Automotive Tech, Diesel Tech, Apprenticeship where curriculum shared \$300000 Med</i></p> <p><i>Continued enhancement of apprenticeship programs Cost being identified High</i></p>	<p><i>W,ESL,HS</i></p> <p><i>CW</i></p> <p><i>CC,CW,H S</i></p> <p><i>CC,CW</i></p>	<p><i>B,E,F,J,K – Collaborative project – Horticulture, Culinary Arts and Animal Science programs</i></p> <p><i>E,I,J,L</i></p> <p><i>B,H,I,K</i></p> <p><i>F,I,J</i></p>
<p>5) Curriculum Infusion</p> <p>Modification of curriculum to reflect triple bottom line of sustainability/green principles and practices (i.e., construction, sustainable manufacturing, 'green' apprenticeship models)</p>	<p>TVCC-Faculty Stipends for welding, natural res, ag, sciences, social sciences \$250-\$1500 stipends –total \$3-5000 per year for 5 years High</p>	<p><i>KCC- Expand some classes to "green" apprenticeship models</i></p> <p><i>OCCC-Adding energy efficiency and audits to Aquarium Science</i></p> <p><i>SOCC-; enhance/create courses to support programs in natural</i></p>	<p><i>CC,HS</i></p> <p><i>CC,CW</i></p> <p><i>CC</i></p>	<p><i>J,K</i></p> <p><i>F,G</i></p> <p><i>A,D,F (TVCC)</i></p> <p><i>F, G, H (offer green welding summer seminar for other</i></p>

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Potential New /Expanded Green Training and Activities for Community Colleges

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	MHCC Certificate of Sustainable Engineering Practices (curriculum in process) \$42,000 1 st yr	resources :fisheries and wildlife, water management, and env management \$478,000High; chem. w/emphasis on scientific investigation in conservation, restoration and propagation, expand and improve chemistry lab and curriculum , \$403,000 High; Revise existing AAS Welding curriculum to reflect green practices \$0 High; Enhance Small Business Management and Entrepreneurship AAS \$50,000 High Clatsop-Automotive Alternative fuel MHCC Include sustainability modules in office and healthcare office curriculum \$11,000 Med Adapt modules for customized business training\$5000 COCC- Develop new courses Intro to Renewable Energy and Tech and Electrochemistry \$7000 High	CW CC/HS CC	cc) E,F (offer green welding practices taining to CW and business partners and training on greening small businesses—emphasis on marketing Projects include using local plants in phytoremediation of heavy metals and exploring using local algae for biodiesel production J B,C,F,I I,J

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	RCC- Modify apprenticeship programs Electricians, plumbers, HVAC, Sheetmetal \$25,000 High	<i>SOCC- Expand Chem curriculum \$6,0000</i>	CC	H partner with other CCs
	LCC – Development of Training Manual for Sustainability curriculum infusion for ce	<i>LCC- Infuse sustainable manufacturing and sustainability princ into ENV181 4 fac 30 cur dev hours each High Develop 3 professional cert for water conservation tech Cert Landscape Irrigation \$5000 High Amer Rainwater Catchmet System Assoc Cert \$5000 High; Amer Water Conservation Practitioner \$15000 High</i>	CC,DL	C,F,K
	Chem – Green Efficiency/Sustainability Coordinators within existing businesses. Options added to existing curriculum \$75,000 curriculum development and materials dissemination	<i>BMCC –Continued enhancement of apprenticeship programs Costs being identified includes construction of wall and roof mock ups installation of energy control systems</i> <i>Chem- Revise Management, Hort, Pol Sc, Hospitality and Tourism, Business Adm and Career Guidance</i>	CC,DL,H S,CW A, CC,CW CW, CE, CC, DL,ESL	C,E,J,L,G,H,K F,I,J B,G,K

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6) Other "Green" proposals not covered in above categories (sustainability practices on your campus, etc)	<p>Clackamas: Sustainability Series \$60,000 1500 students \$60,000High ; Green industry miniseries \$46,000 (3yr) 75 employee High;Lean Training Institute \$120,000; Bridge Programs for Green: Plumbers, electricians, carpenters, contractors, \$100,000 each(2yr)</p> <p>OCCC-Workshops on Self Sufficiency and lowering carbon footprint for businesses and indiv</p> <p>TVCC- Survey of new energy tech in bus and ag \$5000 one time cost High</p>	<p>TVCC- Green learning labs, models in viticulture program, eg drip technology \$15,000 per yr 5 yrs High (CC,DL,CW) J</p> <p>TBCC- Revise three Industrial Maint Tech courses \$30,000 High Create Intro to Gr Jobs during ABE \$3000start up 20 students per term Med Create lang specific tech and industry in Amer Speech Sounds \$5000 curr deve 10 students per term Med</p>		

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	<p>PCC-WorkKeys and Job Profiling</p> <p>SOCC- Development of new processes and practices in the area of waste and energy management based on audit, \$100,000 High</p> <p>CGCC- Develop sustainability practices for campus</p> <p>COCC-Add CE classes for green living \$29-\$89 Add Business classes in green \$29-\$89</p> <p>ROCC-Master Recyclers for consumer and Master Rec for Bus \$10,000 High,</p>	<p><i>MHCC Environmental Mitigation Certificate – Start up \$9,000 Ongoing \$26,400 Med</i></p> <p>COCC-Purchase LEED cert for new campus buildings \$100,000 X 3 buildings High Install PV on future buildings High</p> <p><i>LBCC- Water/wastewater expansion upgrade in applications of water reuse tech in: high tech methods: wetlands treatment \$300,000 for lab curriculum dev and instruction</i></p> <p><i>LCC –Develop 2 credit class Low tech water supply, pumping and</i></p>		

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	LCC Resource Conservation Management on Or CC Campuses \$500,000 High; Develop more curricular activities ie ecology club ,Green Chemistry club, develop recycling and waste reduction education center, operate on 100% renewable energy, grow food for café BMCC Infusion of gr components into new Hermiston campus (LEED construction, green sciences.) Chem- Non-credit Industrial Maintenance Operator, and Mechanics, "Innovation in Workplace Green Tech" workshops. Develop a series of workshops on "green" methods and techniques- on line and face to face. Industry partners will award "Certificate for Green Innovation and Creativity"	<i>purification methods \$10,000 Med; Develop a Water Energy Nexus class med-low \$5,000; Rain Garden Installation Workshop \$4000 Med</i>	CC,DL,CW,ESL, HS,ABSE CC,DI,Hs <CW CC,DL<A BS,ESL,H S,CW DL,ABS, ESL,HS, CW	E,F,G,H,I,J,L A,E,J,K A,E,J,K A-L B,E,H,I,J,K,L

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C

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	<p>Green Chemistry club, develop recycling and waste reduction education center, operate on 100% renewable energy, grow food for café</p> <p>BMCC Infusion of green components into new Hermiston campus (LEED construction, green sciences,)</p> <p>Chem- Non-credit Industrial Maintenance Operator, and Mechanics, "innovation in Workplace Green Tech" workshops. Develop a series of workshops on "green" methods and techniques- on line and face to face. Industry partners will award "Certificate for Green Innovation and Creativity"</p>		<p>CC,DL,HS <CW</p> <p>CC,DL<A BS,ESL,H S,CW</p> <p>DL,ABS, ESL,HS, CW</p>	<p>A,E,J,K</p> <p>A,E,J,K</p> <p>A-L</p> <p>B,E,H,I,J,K,L</p>

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