

# Appendix #1

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.)
<b>1) Nascent Renewable Energy Jobs</b>  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) _____ Bridge Programs for ABS <input checked="" type="checkbox"/> Career Pathways Certificates (Clackamas will evolve) <input checked="" type="checkbox"/> Career Pathways Roadmaps (Clackamas Under development), LBCC,LCC <input checked="" type="checkbox"/> Other K-12 connections (Clackamas – dual credits to manuf), LBCC <input checked="" type="checkbox"/> Program of Study (Clackamas)LBCC,LCC <input checked="" type="checkbox"/> Short term trainings (TVCC),BMCC _____ Apprenticeships _____ Career Readiness Certificate <input checked="" type="checkbox"/> Distributed Education (Clackamas some online classes)BMCC <input checked="" type="checkbox"/> Small Business Development BMCC _____ Contracted Training
<b>2) Emerging Renewable Energy Jobs</b>  These include the jobs that are on the ground and increasing such as in solar, wind, utilities	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, watershed management and noxious weed 30	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) _____ Bridge Programs for ABS <input checked="" type="checkbox"/> Career Pathways Certificates (Clackamas will evolve) <input checked="" type="checkbox"/> Career Pathways Roadmaps (Clackamas Under

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	<p>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 &amp; 1yr cert two entry/exit pts/admit 40 students in each cohort. Articulation agreements w/LBCC &amp; 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 wind program</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 ,PA</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 scholarships and equipment</p>	<p>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>

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<b>3) Energy Efficiency Jobs</b> These include jobs that involve increasing efficiency of the built environment such as jobs in weatherization, energy auditors, and some trades	OCCC-Trainings for bus owners on tax credits for energy efficiencies  TVCC-Weatherization Training noncredit CE 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  Chem- Apprenticeships (Electrician, Heating, Ventilation, Air-Cond and HVAC) renewable energy activities credit  Clatsop-Weatherization and Lead Removal non credit; Historic Preservation and Restoration credit 15 students per year  MHCC- Sustainable Building Advisor National Certification non credit; Building Analyst and Envelope Prof non-credit (prepares students for	CE   CC,DL,CW   CC,DL,CW  CW CC/CW/DL  CW DL,CW	Working on partnership with Harney-Malheur Community Action   NSF, Earth Advantage, City of Portland, Architectural firms and public agencies related to sustainable design and development   Community businesses  Area small business Advisory Board & local businesses  Business and Industry Incumbent Workers skill upgrade	___X___ Career Pathways: PCC/RCC/LCC ___ Bridge Programs for ABS ___X___ Career Pathways Certificates/RCC ___X___ Career Pathways Roadmaps/RCC, LCC ___x___ Other K-12 connections?RCC,LCC ___X___ Program of Study Clatsop(Historic),RCC,LCC ___X___ Short term trainings TVCC, Clatsop (Weatherization), MHCC, COCC,LCC ___X___ Apprenticeships Chem ___X___ Career Readiness Certificate RCC,LCC X___ Distributed Education BMCC ___X___ Small Business Development (OCCC)<BMCC ___ Contracted Training

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	<p>the Building Performance Institute cert testing</p> <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>Partner with WIA</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>	

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<b>4) Greening of existing jobs</b> 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) _____x Program of Study _____x LCC,BMCC _____x 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 _____X Small Business Development TVCC,LCC _____X Contracted Training Clackamas, TVCC,MHCC,LCC

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	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, organiz ational mangers 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,	
<b>5) Curriculum Infusion</b> Modification of curriculum to reflect triple bottom line of sustainability/green prin- ciples 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

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	<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>	

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	<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>			
<b>6) Other Green activities</b>	<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>___X___ 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>___X___ Short term trainings TVCC, UCC, Clatsop, SOCC,COCC,RCC,LBCC,LCC,BMCC</p> <p>___X___ Apprenticeships LCC</p> <p>_____ Career Readiness Certificate</p> <p>_____ <input checked="" type="checkbox"/> Distributed Education RCC</p> <p>___X___ Small Business Development UCC, COCC,LCC,BMCC</p> <p>___X___ Contracted Training LCC</p> <p>Note: KCC marked most of the above with no explanation and no reference</p>



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	<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 warning, 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 4<sup>th</sup> 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>	

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	<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	Solar Oregon PaciCorp Regional Governments	