

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)		
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	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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	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		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,

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	certificate to support biomass 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			beverage distilling, Program will partner with LBCC to leverage resources and provide greater range of job opportunities for students
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	<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	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

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	TVCC-Solar Voltaic Tech and Basic Manufacturing Cert, \$250,000 start up and \$150,000 per year for 4 years HIGH (TOP PRIORITY)	TVCC- Water/Wastewater Tech \$100,000 start up and \$70,000 for 4 yrs Med	owners CC,DL, ABS,ESL,	energy company specializing in solar as well as growth solar in Caldwell Potential partner with Idaho Power 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</i> <i>Comment: Local processing co planning expansion estimates of 100 new jobs and 100 retraining jobs – this priority would raise when/if happens</i>
	TBCC- Alternative Energy Cert \$80,000 High Interested in partnering on wind energy tech(cert /AAS) \$220,000 High		CC, DL, Hs, CW	H-OCCC and Clatsop could feed into Alternative Energy AAS(eg CGCC) J –Advisory cwe
	Chem-Wind Tech AAS (redesign/add) \$115,000 equip, \$2700 curriculum dev \$3000 m&S, 15 stud 1 st yr 20 2 nd yr, 25 3 rd ; Photovoltaic Tech AAS (courses and potential degree and cert) \$81,000	Living Machine (Water Treatment) 2.5 m Med	CC, DL, HS,CW	H- Possible w/OCCC and Clatsop, J
	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		CC, DL,CW	B,C,E,H,I,J,K
			CC,CW	C,E,F,J,L
			DL,CW	J- with Oregon Coast Community Action (ORCCA)

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	<p>photovoltaic panel installation \$10,000 start up/\$2500 per class non credit High</p> <p>CGCC –Develop Renewable energy business management strand G/H/J/L/ High</p> <p>Mechanical Energy Engineering Tech AAS 18 Students start up, 34 following yrs start up/1st yr \$135,000 Med</p> <p>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</p> <p>RCC-Energy Tech \$150,000 High</p> <p>BMCC Wind Tech Prep</p>	<p><i>CGCC -Develop high voltage & Safety module High; Secure commercial sized nacelle High Purchase residential scale wind turbine and ground mounted solar system Med</i></p> <p><i>COCC-Expand NABCEP to instruction for non-electricians non credit \$6500 Med</i></p> <p><i>LCC-Distance PV and solar thermal training Expand to include PV2 and solar thermal fund and hands on</i></p>	<p>A</p> <p>CC,CW CC CC</p> <p>CC,DL,H S</p> <p>DL,CW</p> <p>CC,DL,H S,CW</p> <p>CC,HS, DL,CW</p>	<p>Expand partnership with Apprenticeships Trust</p> <p><i>F,H,I,J</i></p> <p>J,C</p> <p>E,I,J</p> <p>B,C, maybe H</p> <p><i>E,FG,H,I,J,L</i></p>

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	program for early steps in wind Costs TBD Med; Solar Tech Prep for solar tech Cost TBD Med	<i>training \$220,000 High</i>	CC,DL,CW	A,C,D,E,H,I,J,L
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
	KCC-Seminars and cert that would help drive demand for weatherization, energy auditors		CC,DL,HS,CW	(KCC)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	<i>LBCC –Add energy efficient and gr energy options for incumbent</i>	CC,CE	E,L

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	Efficiency training program \$30,000 start up/then \$2000 @class High	<i>Mechtronics workers \$50,000 in start up and curriculum dev</i>	CC,DL,H S,CW	<i>LBCC-Develop materials and equipment for current Mech /RHHVAC offerings and add (E) short term options for incumbent worker K</i>
	PCC-Facilities Maint AAS w/ Building Commissioner Training option High	PCC Both expansion and enhancement High	CC,DL, CW CW	
	Electrical Trades-NABCEP Cert Prep, Building Inspection Program: Green Build Insp High , Landscape Tech AAS and 1 yr cert option-Green Roof and Wall High	PCC Program Expansion	CC,DL, CW	
		PCC Expansion and enhancement High	CC,DL, CW	
		PCC Expansion/enhancement		
		<i>Clatsop – Automotive Fuel \$100,000 High</i>	CW	E,J,L
	COCC- AAS Energy Management Start up \$200,000 High		CW,DL	E,H,I,J
	RCC- Residential Energy Analyst Program \$25,000 Med		CC,DL,C W	E,J
		<i>LCC-Residential Weatherization and Auditing Cert \$250,000 Highest Priority; Commercial Energy Auditing \$250,000 Highest</i>	CC,DL,C W,ESL,HS ABE	E,F,G,H,I,J,L
			CW	E,I,J,L
	BMCC Green Contractor Skill and Lic Program Cluster Cost	<i>BMCC Diesel Tech module</i>		

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	TBD Med RCC-Weatherization Tech \$25,000 H	<i>re.advanced emissions testing Cost TBD High</i>	CC,DL, CW	<i>F,I,J,K,L</i>
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, CW,CE	Clackamas- A could be,C,I,J including Steam/pipe Local280 A,B,C,E,G,I,J,K
	KCC-Solar Voltaic certificate for plumber and elect needs		CC,HS	A Pathways to other colleges, C, E,H,I,J
	OCCC- train for green cleaning and building maintenance, interested in others as listed		CW	L,E,H
	TVCC-Train the trainer in varied renewable energy applications to common	<i>Chem-Automotive tech –fuel cells and hybrid tech 100 students per yr cost \$18,500 High Priority</i>	CW	<i>B,C,E,F,H,I,J (note safety/fire training comments)</i> Comment:32 journey level electricians in 0 local elect shops will receive 16 hour course and endorsement in solar electrical installation Partnership with Ontario

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	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		Small Business	JATC #MA-6008 and Rogue CC E,L,J L
	TBCC- Summer organic farming-business and production series \$30,000 start up/curriculum 20 students per session Med	<i>SOCC-Program of Study with Ecotourism \$130,000 startup/\$80,000 ongoing High</i>	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>
	PCC-Bus Management AAS-Sustainability business practices option High , Civil/Mechanical Eng Tech AAS-Sustainability and Gr Tech option	PCC Expansion and enhancement – create 4 new courses PCC No new courses –integrated sustainability related courses by other disciplines	CC,DL, CW CC,ABS, CE A	J=Current local producers as guest speakers/dem L=SBDC and Econ Dev A,B,E,K <i>J – Electrical Businesses</i>
	Clatsop- Green Garden (student Driven)	<i>UCC –Training apprentices electricians fir installation, maint,</i>	CW	<i>J</i>

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	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 over 2yr	<i>repair of green related equipment</i> <i>MHCC-Expanded Green Building training</i> <i>LBCC- Alternative Sustainable/Gr Vehicle Fuel Tech 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> <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> <i>Continued enhancement of apprenticeship programs Cost being identified High</i>	CW,DL CC,DL,Hs CC,HS,CW,DL CC,DL,CW,ESL,HS CW CC,CW,HS CC,CW	E<H,I,J C,F B,E,F,J,K – Collaborative project – Horticulture, Culinary Arts and Animal Science programs E,I,J,L B,H,I,K F,I,J

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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)	TVCC-Faculty Stipends for welding, natural res, ag, sciences, social sciences \$250-\$1500 stipends –total \$3-5000 per year for 5 years High	<i>KCC- Expand some classes to “green” apprenticeship models</i> <i>OCCC-Adding energy efficiency and audits to Aquarium Science</i> <i>SOCC-; enhance/create courses to support programs in natural resources :fisheries and wildlife, water management, and env management \$478,000High; chem.</i>	CC,HS CC,CW CC	J,K F,G A,D,F (TVCC) <i>F, G, H (offer green welding summer seminar for other cc) E,F (offer green welding practices taining to CW and business partners and training on greening small businesses –emphasis on marketing</i>

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	MHCC Certificate of Sustainable Engineering Practices (curriculum in process) \$42,000 1 st yr	<i>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</i>	CW	J
		<i>Clatsop-Automotive Alternative fuel</i>	CC/HS	B,C,F,J
	COCC-Develop new courses Intro to Renewable Energy and Tech and Electrochemistry \$7000 High	<i>MHCC Include sustainability modules in office and healthcare office curriculum \$11,000 Med Adapt modules for customized business training \$5000</i>	CC	I,J
	RCC- Modify apprenticeship	<i>COCC- Mod of contracted training and manufacturing curriculum in credit and non credit classes Med Purchase high temperature units (High) and installation of central vacuum (low requires new building)</i> <i>SOCC- Expand Chem curriculum \$6,0000</i>	CC	

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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)		
	<p>programs Electricians, plumbers, HVAC, Sheetmetal \$25,000 High</p> <p>LCC – Development of Training Manual for Sustainability curriculum infusion for cc</p> <p>Chem – Green Efficiency/Sustainability Coordinators within existing businesses. Options added to existing curriculum \$75,000 curriculum development and materials dissemination</p>	<p><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 Catchnet System Assoc Cert \$5000 High; Amer Water Conservation Practitioner \$15000 High</i></p> <p><i>BMCC –Continued enhancement of apprenticeship programs Costs being identified includes construction of wall and roof mock ups installation of energy control systems</i></p> <p><i>Chem- Revise Management, Hort, Pol Sc, Hospitality and Tourism, Business Adm and Career Guidance</i></p>	<p>CC,DL</p> <p>CC,DL,H S,CW</p> <p>A, CC,CW</p> <p>CW, CE, CC, DL,ESL</p>	<p>H partner with other CCs</p> <p>C,F,K</p> <p>C,E,J,L,G,H,K</p> <p>F,I,J</p> <p>B,G,K</p>

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6) <i>Other “Green” proposals</i> not covered in above categories (sustainability practices on your campus, etc)	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)	<i>TVCC- Green learning labs, models in viticulture program, eg drip technology \$15,000 per yr 5 yrs High (CC,DL,CW) J</i>		
	OCCC-Workshops on Self Sufficiency and lowering carbon footprint for businesses and indiv	<i>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</i>		
	TVCC- Survey of new energy tech in bus and ag \$5000 one time cost High			

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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>LCC Resource Conservation Management on Or CC Campuses \$500,000 High; Develop more curricular activities ie ecology club</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 purification methods \$10,000 Med; Develop a Water Energy Nexus class med-low \$5,000; Rain Garden Installation Workshop \$4000 Med</i></p>	CC,DL,CW,ESL,HS,ABSE	E,F,G,H,I,J,L

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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 gr 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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