

**APPROPRIATIONS REQUEST FORM
OREGON HOUSE DELEGATION
FISCAL YEAR 2010**

DEADLINE FOR SUBMISSION: FEBRUARY 13, 2009

PLEASE NOTE: As required by the House Appropriations Committee, all requests will be made public on the requesting Member's website.

- 1. Project Title:** *Clackamas Community College Renewable Energy and Sustainability Center*

- 2. Organization name and address:**
Clackamas Community College
19600 Molalla Avenue,
Oregon City, OR 97045

- 3. Primary Contact name, phone number, mobile phone number, fax number and email:**

- 4. Project Location Address (if different from Organization):**
Same

- 5. Please describe the requesting organization's main activities, and whether it is a public, private non-profit, or private for-profit entity:**
Public Community College: Education, Training, Workforce Development

6. Briefly describe the activity or project for which funding is requested (please keep to 500 words or less.)

Project purpose:

Grow CCC's renewable energy and workforce training programs.

Highlights and Distinctive Features

1. Goals:

- a. Partner with industry to address new and emerging renewable energy opportunities poised for economic growth and job creation.
 - *Year-one target: 200 businesses receive assistance*
- b. Promote renewable energy workforce and training programs to businesses and students throughout Oregon.
 - *Year-one target: Outreach to 5,000 people*
- c. Create academic and career pathways that lead people to credentials for jobs and careers in renewable energy.
 - *Year-one target: 500 new and incumbent workers find jobs, receive training or start an academic or career pathway in renewable energy*

2. Strategies:

- Place priority on putting unemployed and underemployed people back to work.
- Conduct a comprehensive analysis of current and future industry needs.
- Leverage existing college facilities and regional partnerships.
- Convert university-based research into meaningful curriculum to meet industry and academic needs from a workforce perspective.

3. Economic Outcomes:

- **Creating jobs for Oregonians:** Provide business and industry with the critical tools they need to be successful to add capacity and adapt to a changing economy that supports renewable energy and sustainability.
- **Putting people to work:** Prepare Oregonians for emerging careers in renewable energy and sustainability. These jobs include solar technology, hybrid vehicle technology, wind technology, hydrogen, and bio-fuels.
- **Developing new industry skills:** Students who complete specialized training at CCC will be eligible for employment as solar installers/service technicians, wind turbine technicians and alternative fuel vehicle technicians (as classified by Department of Energy).
- **Sustainability:** Clackamas Community College has strong academic, workforce, economic and business development partnerships that will ensure the long-term success of this investment.

Timeline: Ready to start fall 2009.

4. Economic Advantage:

Location: Clackamas Community College is strategically located on the I-5/I-205 corridors, a highly populated region, anchored by large industrial districts. Clackamas is considered part of the Portland Metropolitan region, a magnet for renewable energy firms like Vestas, Solar World, Oregon Iron Works, and Suzlon.

5. Program tactics:

a. Training highlights include:

- flexible curriculum that accommodates students' lifestyles
- customized training that is adaptable, short-term and responds to industry needs
- internships within business and industry
- career and academic degree pathways
- follow up consultation with business and industry

b. Design and create an alternative energy refueling station at CCC to be used as a working lab for the renewable energy program in collaboration with industry. The lab will serve as a training center for students and industry. It builds on CCC's capacity as a technology demonstration site for the community.

c. Define alternative energy careers, continuing education opportunities, serve as an entry portal for pre-engineering students at the secondary level, and satisfy Career Related Learning Experience (CRLE) for K-12 system. CCC plans to develop an AAS degree and articulate with Oregon Institute of Technology's renewable energy degree, as well as develop an articulation agreement with Columbia Gorge Community College, wind technologist degree.

d. Train-the-trainer. Develop curriculum and instruct 50 incumbent workers in alternative energy technology that would train 200 additional technicians.

e. Public/Community Outreach. Raise community awareness. Infuse the region with high-quality, benefit-laden topical events and workshops that promote wise use of alternative energy resources and sustainability practices. Network with existing interest groups and/or create sustainable, local advisory committees to help identify local need and delivery strategies. Identify instructional resources, plan, promote, follow-up activities, and document process for replication by other colleges.

7. Has this project received federal appropriations funding in past fiscal years? No.

7a. If yes, please provide fiscal year, Department, Account, and funding amount of any previous funding. N/A

8. Federal agency and account from which funds are requested (Please be specific –e.g. Department of Housing and Urban Development, Economic Development Initiatives account): LHHS subcommittee; Department of Education; FIPSE account

9. What is the purpose of the project? Why is it a valuable use of taxpayer funds? How will the project support efforts to improve the economy and create jobs in Oregon?

Purpose:

Grow CCC's renewable energy and workforce training programs. Leverage existing infrastructure and partnerships to supply trained workers for emerging business workforce needs in clean, renewable energy and resource sustainability.

Why is it a valuable use of taxpayer funds?

Providing timely and relevant renewable energy workforce and training programs is critical to turning around our country's economy and putting American's back to work. Clackamas Community College has the right platform and strategic partnerships in place to ensure a good return on investment to our community and our country. Our goals include: a) partnering with industry to address new and emerging renewable energy opportunities poised for economic growth and job creation; b) promoting renewable energy workforce and training programs to businesses and students throughout Oregon; and c) creating academic and career pathways that lead to credentials for jobs and careers in renewable energy and sustainability.

How will the project support efforts to improve the economy and create jobs in Oregon?

The project will help the economy by creating jobs for Oregonians; putting people to work; developing new industry skills; and creating a more sustainable economy for the future.

Targets include: assisting more than 200 businesses; reaching out to more than 5,000 potential businesses and students' and assisting more than 500 new and incumbent workers find work or jump start their academic/career pathway in renewable energy.

The Clackamas County Board of Commissioners appointed a Green Ribbon Committee in 2007 to develop an action plan to support the County's renewable energy, agriculture and sustainable development sectors. The Green Ribbon Committee found that developing renewable energy sources is a major economic opportunity for Clackamas County. The CCC Renewable Energy and Sustainability Center is a critical action step in moving this plan forward.

There are significant trends supporting development of renewable energy globally and in the region. According to CleanEdge, renewable energy is a rapidly growing sector in the U.S. with:

1. \$2.4 billion in venture capital investment in the U.S.
2. Between 2006 and 2016, clean energy investments should grow in the following sectors:
 - Biofuels: investments will grow from \$20.5 to \$81 billion
 - Wind power: investments will grow from \$17.9 to \$60.8 billion
 - Solar photovoltaics: investments will grow from \$15.6 to \$69.3 billion
 - Fuel cells and hydrogen: investments will grow from \$1.4 billion to \$15.6 billion

In addition, Oregon has major sources of woody biomass, biowaste and hydro power. For example, Oregon produces four to six million tons per year of biomass resources from agricultural field residues, forest residues and forest thinning. Several state and regional initiatives make Clackamas County the ideal location to grow the renewable energy industry.

Clackamas County Overview

Specific opportunities for development of this sector in Clackamas County include:

- Installing solar photovoltaics on new facilities.
- Installing micro-hydro facilities on streams and irrigation systems.
- Using anaerobic digesters to produce methane gas from livestock manure or other waste.
- Producing biofuels, including biodiesel made from oilcrop seeds and ethanol made from plant starches and cellulose.
- Producing firewood from forest thinning and fire suppression projects.
- Utilizing geothermal opportunities, for example at Government Camp and Beaver Creek Road.
- Locating wind generation on agricultural land.

10. Have you requested funding for this project from other Members of Congress? We will be sending our proposal to Senator Wyden and Senator Merkley.

11. Funding Details:

a. Total project cost (all funding sources and all years): Start-up costs are projected at \$1,110,000 (investment will leverage existing CCC resources, fundraising efforts and future grants).

b. Amount being requested for this project in Fiscal Year 2010: \$1,110,000

c. What other funding sources (local, regional, state) are contributing to this project or activity? (Please provide specific dollar amount or percentage.)

Any required nonfederal matching funds will be provided.

d. Do you expect to request federal funding in future years for this project? Yes, we expect to seek federal funds in the future. We also plan to sustain our efforts with tuition, industry contributions (equipment, etc.), involvement of industry associations, continuing education activity, and long term/low overhead distance learning.

**e. Breakdown/budget of the amount you are requesting for this project in FY 2010.
(e.g. salary \$40,000; computer \$3,000):**

Budget Category	2010 Cost
Salaries (FT, PT Faculty, Director, Student Success/CWE Coordinator, Curriculum Design/Developer, Lab Staff, Industry Training and coordination/outreach, includes benefits)	\$ 650,000
Tools and Equipment	\$ 250,000
Materials and Supplies	\$ 75,000
Travel	\$ 10,000
Facility Improvements	CCC contribution
Regional Analysis, Industry Summits, etc.	\$ 25,000
Marketing, Education, and Outreach	\$ 50,000
Negotiated Indirect	\$ 50,000
TOTAL	\$1,110,000

f. Please list public or private organizations that have supported/endorsed this project:

- Workforce Investment Council of Clackamas County (WICCO/WIA)
- Oregon Employment Department Network & One Stop
- Clackamas County Economic Development through Growth and Employment (EDGE)
- Clackamas Community College
- Oregon Institute of Technology
- University of Montana
- Oregon Department of Education
- Columbia Gorge Community College
- Northwest Bio Fuels
- Trucking Solutions Consortium
- American Hydrogen Association Northwest
- IITR Truck Driving School
- Clackamas County Office of Sustainability
- Clackamas Education Service District K-12
- Oregon Employment Department
- Vocational Rehabilitation
- Clackamas County Social Services
- Veterans Affairs and Oregon National Guard

g. Is this project scalable? (i.e. if partial funding is awarded, will the organization be able to use the funds in FY 2010?): Project is scalable and funds can be used in Fall 2009 to quickly start initial programs leading to jobs and economic stimulus.