



**Session: *Getting a Handle on Resources***

**Presentation Title: *AACC's Sustainability Education and Economic Development (SEED) Center***



ecoAmerica  
start with people



- Todd is the Sustainability Director at the American Association of Community Colleges where he manages the organization's green jobs initiatives. He led the launch of the organization's Sustainability Education and Economic Development (SEED) initiative designed to support the community college sector in ramping-up their programs to educate America's 21<sup>st</sup> century green workforce.
- Todd has 13 years experience leading planning projects around the country designed to enhance the competitiveness of regions through strategic post-secondary, workforce and economic development collaboration.



# Community Colleges

**Flexible, affordable, and inclusive.**

**The fastest-growing sector of U.S. higher education...**

- 90% of US population lives within 25 miles of a community college
- Nearly 1,200 colleges, 12 million students
- 46% of all U.S. undergraduates

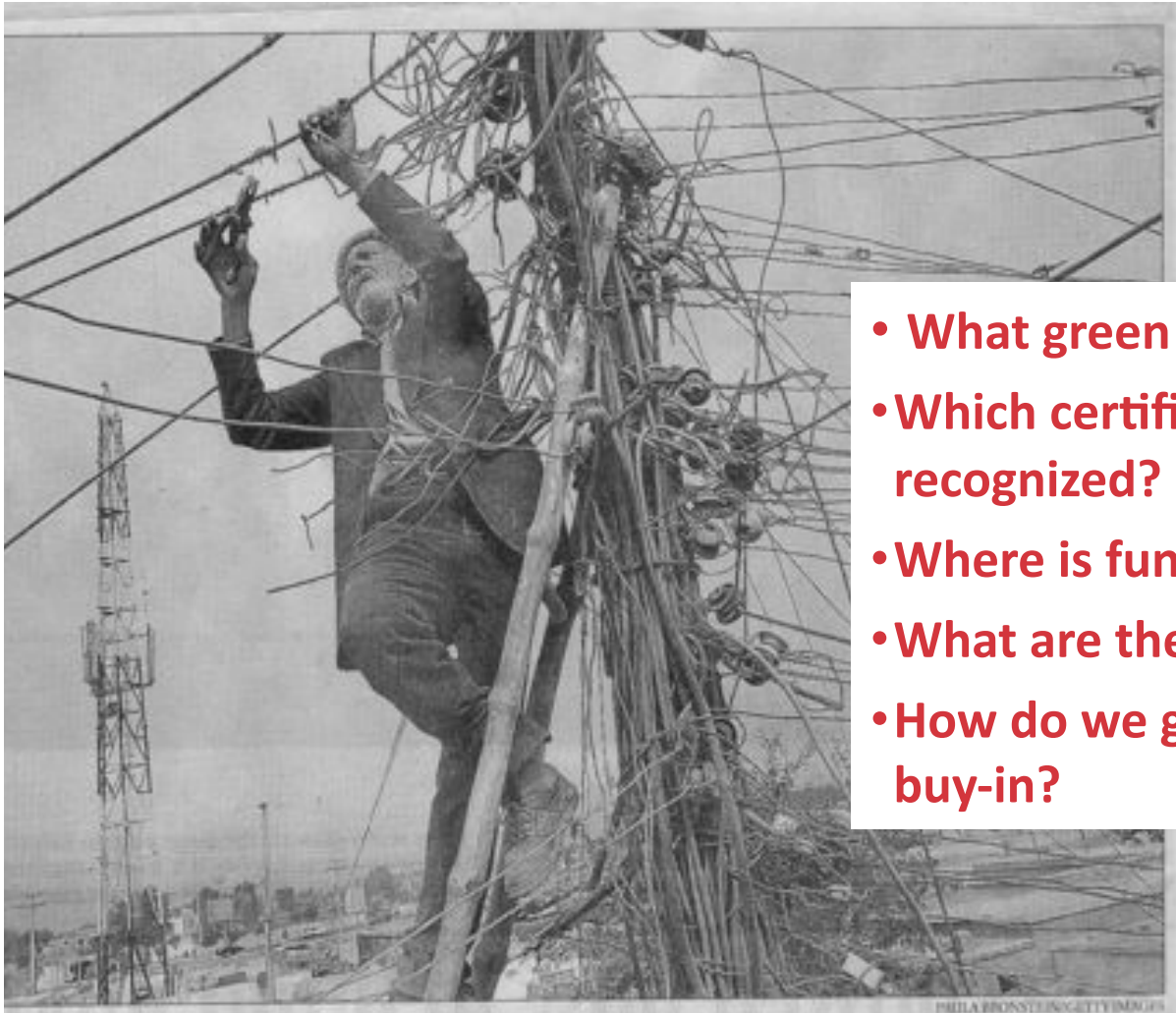


## A Case for Community Colleges

For an *emerging* green economy like this—where job growth potential is significant but great uncertainty surrounds market conditions—**community colleges will be one of the most influential and impactful systems to lead its development nationally.**



# The Big Challenges



- What green jobs are growing where?
- Which certifications are most widely recognized?
- Where is funding going to come from?
- What are the policy drivers?
- How do we generate internal college buy-in?





## This is Where SEED Comes In



- **A leadership initiative:** build the institutional leadership
- **A resource center:** inform faculty
- **An online sharing community:** enhance peer-to-peer networking

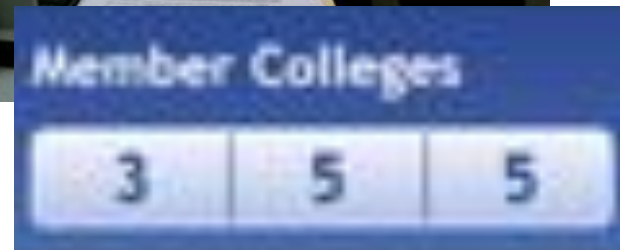
*Funded through The Kresge Foundation and in partnership with ecoAmerica*



*“The 1200 community colleges across the nation have the reach to touch millions of students with the message that environmental leadership and economic growth can and must go hand in hand...”*

Arne Duncan, U.S. Secretary of Education

Launch of the SEED Center,  
October 10, 2010



# www.theSeedcenter.org

ABOUT SEED | JOIN SEED | **RESOURCES** | SHARING COMMUNITY | COLLEGES IN ACTION | SUPPORT | NEWS & EVENTS

Materials exchange  
(curriculum, model  
partnerships, etc.)

250+ curated  
resources

Submit Resources: Contribute curricula to the SEED Center wiki. Green resources by faculty, for faculty. **Submit now.**

The SEED Center is a leadership initiative, resource center, and online sharing environment for community colleges to ramp up programs for America's workforce and build the green economy.

355 member  
colleges

Member Colleges

3 | 4 | 9

Charter Signatories

• Rocking College

Resource Center

- Solar
- Wind
- Green Building
- Energy Efficiency
- Sustainability Education

Colleges In Action



Columbia Gorge Community College Leads Nation in Wind Training



Resource Center

- Home
- What
- Green Building
- Energy Efficiency
- Sustainability Education

Additional Inquiry

Overview

- How are the Resources Organized?
- What are the Criteria?

Additional Partner Resources

Educational resources from SEE Center partners and corporate sponsors

Home > Resources > How to Build a Quality Green Program

## How to Build a Quality Green Program

### Key Strategies for Green and Sustainability Programs

The following strategies have been used at community colleges throughout the nation to help green and sustainable development concepts take root in the classroom, on the campus environment, and in the broader community.

Of course, as educational leaders and sustainability project initiators, you will adapt these suggestions to your organizations. We hope you will contribute your own strategies to help build the quality of this resource center and the accompanying online learning community over time.

These strategies go beyond the domains usually included in quality technology programs. They are 11 specific practices that will strengthen green and sustainability programs on your campus and strengthen your college's position as a sustainability leader in your community.

#### Five Steps

1. Form a Sustainability or Green Committee. [\[Show more\]](#)
2. Assess your existing academic programs, practices, and policies on sustainability and green resources. [\[Show more\]](#)
3. Create a report and a communication plan to address students and the public. [\[Show more\]](#)

#### Core Strategies - Establishing Program Fundamentals

4. Create effective and inclusive community and industry partnerships to build a more sustainable economy. [\[Show more\]](#)
5. Incorporate green practices into existing academic programs. [\[Show more\]](#)

## Resource Center

+ [Home](#)+ [What](#)+ [Green Building](#)

Curricula

Curricular Materials

Certifications & Industry  
CredentialsEmployment Industry  
ProjectionsInnovative Practices &  
PartnershipsSelf-Info, Competencies &  
Career PathwaysProfessional Development  
ResourcesGrant Funding  
Opportunities+ [Energy Efficiency](#)+ [Sustainability Education](#)

Additional Content

## Overview

+ [How are the Resources](#)

Organized?

+ [What are the Criteria?](#)Additional Partner  
ResourcesEducational resources  
from SEED Center  
partners and corporate  
sponsors[Home](#) > [Resources](#) > [Resource Center](#)

## Resource Center

## Green Building

The green building market has expanded from just over the last three years to a \$80 billion national market, and is projected to grow to the next five years. [more >>](#)

## Employment Industry Projections

While job training providers have been quite active in last years working with local industry to define the emerging green jobs market and potential job growth areas, most still struggle to forecast accurately regional occupational demand. The U.S. Department of Labor has made recent strides toward classifying green occupations and competencies which will help communities define and track green jobs and colleges to design appropriate education and training programs. Given the potential renewable energy and efficiency industry outlook, and rapidly changing technologies, access to the most up-to-date industry studies and employment projections will be critical. [more >>](#)

Filter: 

Type:

## Advanced Technology Environmental and Energy Center

The primary purpose of the commission was to identify & determine what jobs are currently needed & address regional, Central, Northwest, South-Central, Southwest, Southeast, & Midwest to provide a preliminary labor market analysis & projections to target regional energy industry economic activities.

## Advanced Technology Environmental and Energy Center (ATEE) Workforce Analysis Sharing Site

Workforce analysis and trends resource website includes labor market research, green job sectors & forecasts.

## American Association of Community Colleges (AAC&amp;C) Green Economy Website

Website focuses on (1) different types of green jobs, (2) professional development, certifications, and certificate training

- App
- Certifications & Industry Credentials
- Curricula
- Curricular Materials
- Employment Industry Projections**
- Innovative Practices & Partnerships
- Professional Development Resources
- Multi-sector Development Resources
- Grant Funding Opportunities
- Self-Info, Competencies & Career Pathways

## SEED Center Wiki

Home Page

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### Categories

- Home
- Wiki
- Alternative Fuels
- Construction
- Green Building
- Energy Efficiency
- Sustainability Education
- All or Other Topics

- Submit Your Program & Course Listing
- Submit your Certificate Materials Here
- Discussion Boards

[View this page](#) [Create a page](#)

## Columbia Gorge Community College

### Renewable Energy Technology Workforce Training Program Mission Statement (August 2012)

CGCC offers comprehensive premier workforce training in a broad range of Renewable Energy Technology Industries for growing:

- A technical program taught by **experienced instructors** that is the highest academic standards
- **Industry endorsed skills training** using standard technology and tools for safety, mechanical, and electrical applications
- **Facilitation of employment** and career pathway opportunities

Following is a selection of the courses offered. Each list provides a comprehensive course overview including a description, activities, materials and textbooks, learning outcomes, assignments and syllabus.

#### RETE 101, Introduction to Wind Turbine Technology I (201)

The course is an introduction to the basic concepts and terminology for how wind energy is captured and transformed into electrical power. Topics include non-linear mechanics physics, electricity and magnetism, fluid dynamics, and aerodynamics. These physical principles underlie the engineering of wind loads, and electrical generation.

#### RETE 102, Renewable Energy Technology (201)

Subjects that will be explored in the course are: biomass, wind, solar cells, turbines, solar cook, geothermal, hydrogen, conversion to gas (hydrogen), electric vehicles, effects of pollution on wind power and generation, and other topics. Also research into old technologies as well as how will be explored. This course also discusses the power and how it will be used.

### Columbia Gorge Community College Subpages

Your submissions will appear here.





# SEED 2011 and Beyond

- SEED Task Force & Advisory Group
- SEED webinar series
- Defining green workforce development program “DNA”
- Community college promising practice awards project
- SEED Center: more sector coverage (alternative fuels, smart grid technology...)
- Workshops, toolkits...
- Getting more members!

*Interested? Email Todd Cohen at [sustainability@aacc.nche.edu](mailto:sustainability@aacc.nche.edu)*



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