



Developing A Pacific Northwest Smarter Grid Workforce

A Case Study in Regional Collaboration
For Workforce Development
In Clean Energy

Workforce Training and Education
Coordinating Board
March 10, 2011

“A Centralia College Partnership”
Barbara Hins-Turner, Executive Director



CENTERS OF EXCELLENCE



CENTER OF EXCELLENCE
for Aerospace and Advanced Materials Manufacturing



CENTER OF EXCELLENCE
for **Marine**
Manufacturing & Technology

Washington State



Center of Excellence
for Careers in Education



AGRICULTURE CENTER
of Excellence



PACIFIC NORTHWEST AGRICULTURE
CENTER OF EXCELLENCE FOR CLEAN ENERGY
A CENTRALIA COLLEGE PARTNERSHIP



Renton Technical College
CONSTRUCTION
CENTER OF EXCELLENCE



Center Excellence
HOMELAND SECURITY



CENTER OF EXCELLENCE
ALLIED HEALTH



center of excellence
International Trade,
Transportation & Logistics



Center of Excellence
for information & computing technology

Designated Center of Excellence for the Energy Industry

Vision

Become National Model to develop partnerships between

- ❖ Business
- ❖ Industry
- ❖ Education
- ❖ Organized Labor
- ❖ Workforce System
- ❖ Economic Development

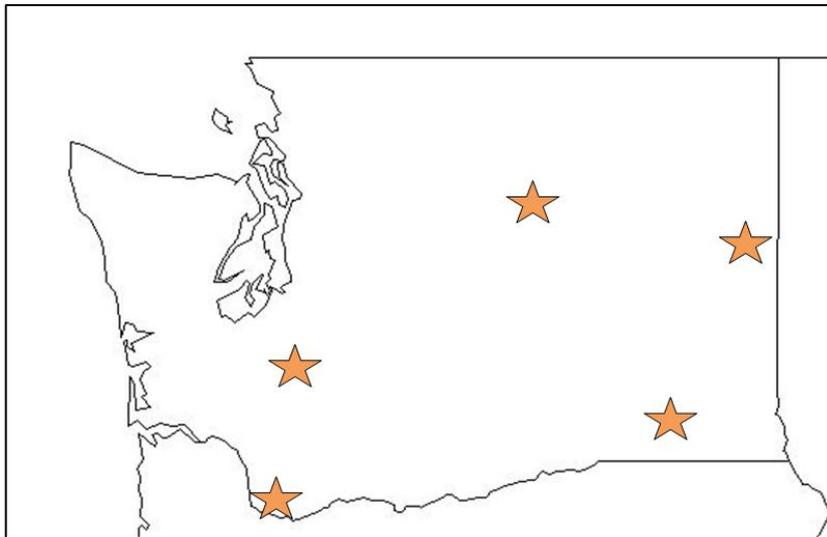
Mission

Liaison between partners and the state's education system to:

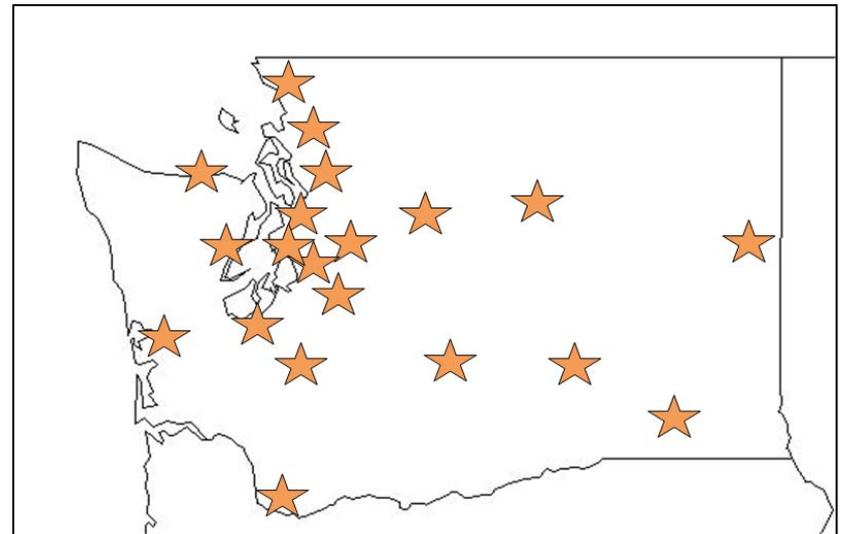
- ❖ Drive the energy economy
- ❖ Create highly skilled workforce
- ❖ Provide consistent curriculum
- ❖ Meet Industry needs
- ❖ Provide state-wide coordinator

Washington State Energy Partner Community Colleges

2005



2011



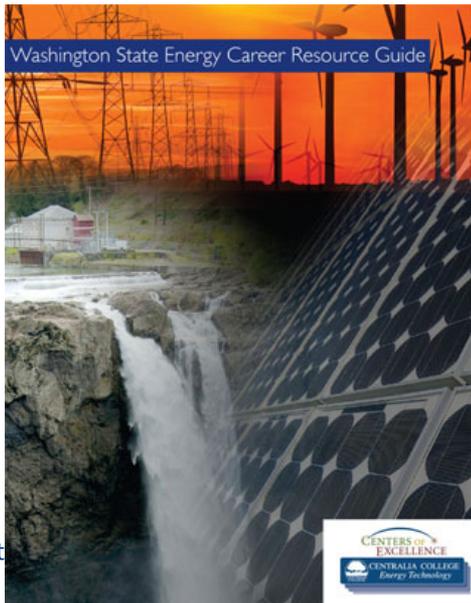
Sector Niche Expertise in Community Colleges

Traditional

Power Operations, Centralia College
Distribution Line Systems, Spokane CC
Nuclear, Columbia Basin College

Renewables and Conservation

Solar, Shoreline CC
Wind, Walla Walla CC
Energy Efficiency Mgmt, Edmonds
and Cascadia CC



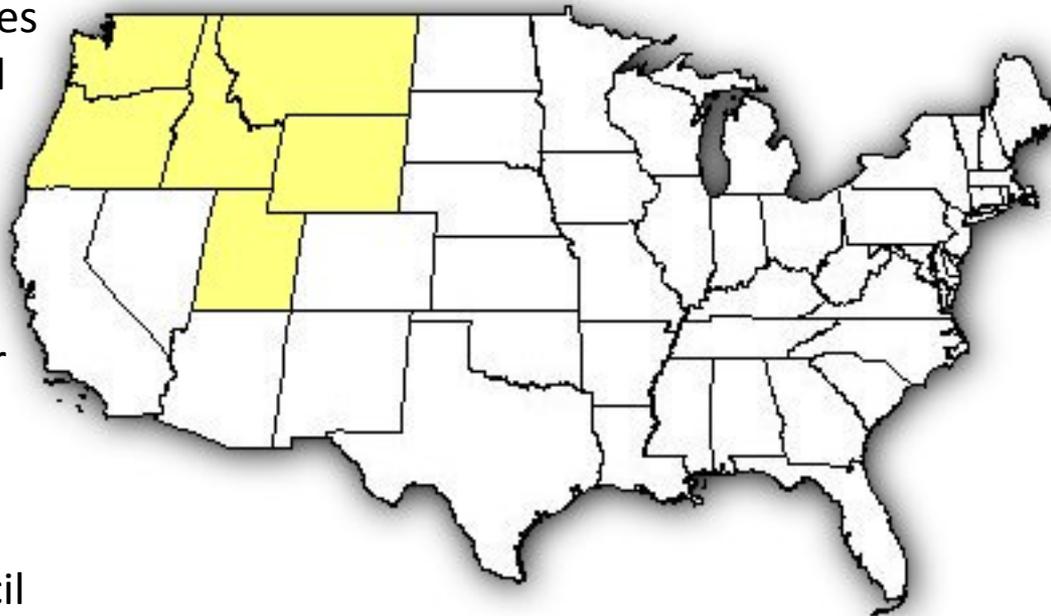
New and Emerging

Smart Grid
Cyber Security
Sustainability



Industry and Labor Partners

- Avista Utilities
- Puget Sound Energy
- Portland General Electric
- Idaho Power
- IBEW Locals 77 & 125
- WA State Labor Council AFL/CIO



- Centralia City Light
- Seattle City Light
- Tacoma Power
- Bonneville Power Administration
- Energy Northwest
- Public Utility Districts

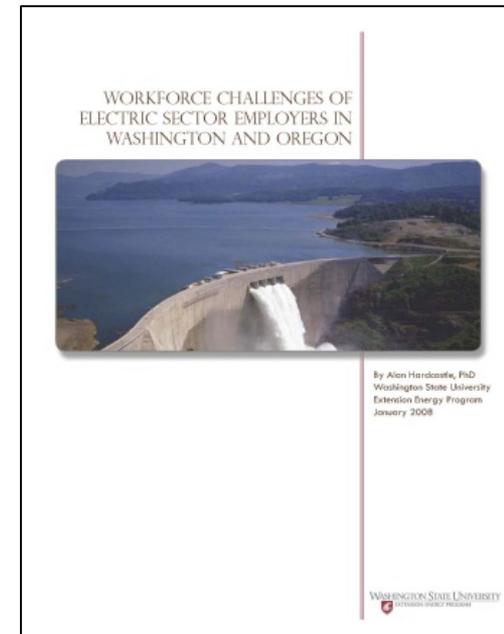
Value to Industry and Labor

- Industry and Labor led Advisory Board
- Strategic Coordination of Energy Sector Efforts
- Continuity of Curriculum
- Support Incumbent Worker and Apprenticeship Training – Classroom and online
- Leverage Stakeholder Resources
- Well Trained, Qualified Workforce



Research = The Platform

- Industry trends
- Labor shortages
- Workforce education solutions
- Growing the workforce pipeline

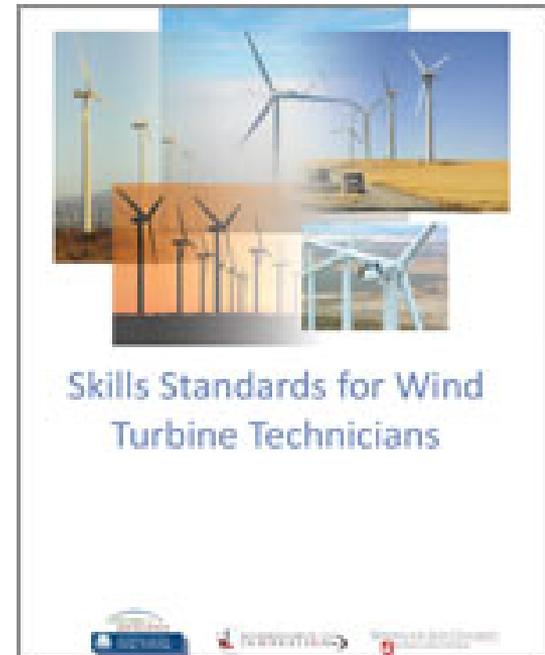


Knowledge Transfer

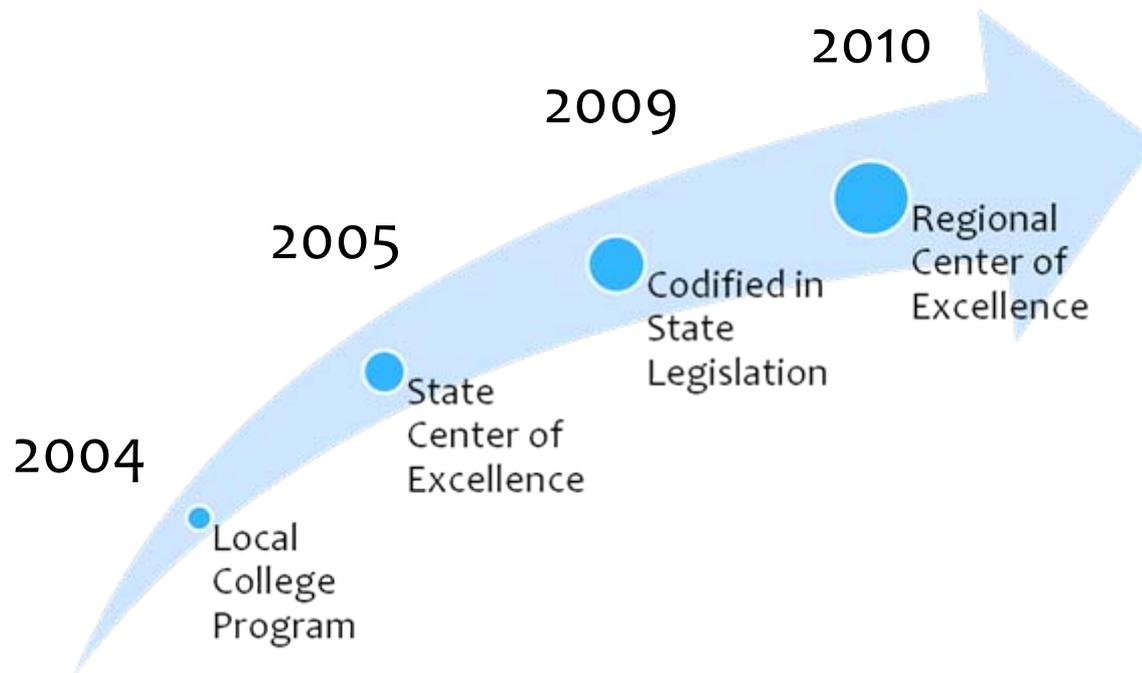
Skill Panels

- Connecting Industry and Education
- Skill Standards: defining industry requirements
 - Plant Operator
 - Plant Mechanic
 - Plant Electrician
 - Combustion Turbine
 - Wind Technician
 - Transmission Occupations

<http://www.centralia.edu/coe/skill.html>



Growth of Energy Workforce Collaboration



National Model



Expanding Network and Resources



Northwest Energy
Efficiency Task Force



BILL & MELINDA
GATES foundation



2011 Bellwether
Award Finalist

Strategic Focus



A Regional Approach Legislative Support



A Smarter Grid



- Department of Energy Funding Opportunity
- \$ 7 Million Match Package
- \$5 Million Federal



Project Objectives



Deliver Smartgrid Training



Create a Training Portal



Share Best Practices

Center for Energy Workforce Development (CEWD) State Consortia Project

- Bill and Melinda Gates Foundation Funding
- 8 State Consortia Selected for Demonstration Projects
- Target low-income, young adults ages 16-26 to assess interest and skill level for potential employment in skilled crafts positions in energy industry
- Pilot for Washington – Spokane WDC and Avista Utilities Line School
- Phase II - Bonneville Power Administration and Vancouver region

Why Develop a Pacific NW Smarter Grid Workforce?



BPA System
Operations
Adrienne



Grand Coulee Hydro
Plant Operator
Brian

High Skills High Wage Jobs



Seattle Steam Power
Plant Operator
Ryan



5th Annual Best Practices Summit

Convening Industry, Labor, Education,
Workforce and Economic Development

June 23/24, 2011

Regional Training and Education Center
Satsop Campus



Pacific Northwest Female Line Crew
Washington State Sustainability Summit
Centers of Excellence for Energy & Construction
25 June 2009

Above the Calling
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Questions??



www.centralia.edu/coe

