

# Washington's Centers of Excellence State Sector Strategy

Center of Excellence for Clean Energy Advisory Board Meeting  
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# CENTERS OF EXCELLENCE

CENTER OF EXCELLENCE

## Vision

Become national model to develop partnerships between:

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



## Mission

RTC RENTON TECHNICAL COLLEGE

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

- ❖ Drive economic development
- ❖ Create highly skilled workforce
- ❖ Provide consistent curriculum
- ❖ Meet Industry needs
- ❖ Provide state-wide coordination
- ❖ "Air Traffic Control"

CONSTRUCTION

Global Trade & Supply Chain Management

HOMELAND SECURITY  
MANAGEMENT  
CENTER OF EXCELLENCE

Center of Excellence  
for information & computing technology



# Core Expectation #1

## **Economic Development Focus:**

- \* Serve as partners with various state and local agencies, regional, national, and global organizations to support economic vitality and competitiveness in Washington's driver industries.*



# State Board for Community and Technical Colleges (SBCTC) Funds Invested Per Center of Excellence

- \* 04/05 - \$100,000
- \* 05/06 - \$107,700
- \* 06/07 - \$136,900
- \* 07/08 - \$120,000
- \* 08/09 - \$170,000
- \* 09/10 - \$170,000
- \* 10/11 - \$170,000
- \* 11/12 - \$155,228
- \* 12/13 - \$154,157
- \* 13/14 - \$154,157
- \* 14/15 - \$205,000
- \* Total Per Center - \$1,643,142



# Examples of External Funding Sources

## Center of Excellence for Clean Energy

### 2006-2014

- \* U.S. Dept. of Labor
  - \* WIRED
  - \* TAACCCT Round 4
- \* U.S. Dept. of Energy
  - \* Smart Grid Project
- \* U.S. Dept. of Commerce
  - \* Energy Entrepreneur Program
- \* Workforce Board
  - \* Skill Panel Grants
- \* Nat'l Science Foundation
  - \* Edmonds CC
  - \* South Seattle CC
  - \* Bellingham Tech
  - \* Spokane Falls CC
- \* Northwest Energy Efficiency Taskforce (NEET)
- \* Industry Contributions

*Total - \$30,710,980*



# Return on Investment All Sectors

- \* Aerospace/Adv Mfg
  - \* \$22,208,000
- \* Agriculture
  - \* \$2,318,938
- \* Allied Health
  - \* \$2,344,648
- \* Clean Energy
  - \* \$30,710,980
- \* Construction
  - \* \$8,528,884
- \* Global Trade & Supply
  - \* \$398,295
- \* Homeland Sec and EM
  - \* \$3,045,000
- \* Information & Comp Tech
  - \* \$2,265,000
- \* Marine Mfg & Tech
  - \* \$134,000

**Total - \$71,953,745**



# Examples of External Funding Sources All Sectors

- \* U.S. Dept. of Agriculture
- \* U.S. Dept. of Commerce
- \* U.S. Dept. of Energy
- \* U.S. Dept. of Homeland Security
- \* U.S. Dept. of Labor
- \* Nat'l Science Foundation
- \* NIST
- \* Workforce Training Board
- \* Hospital Employee ED
- \* Microsoft
- \* Verizon
- \* CERB
- \* WA Dept. of Commerce



# Core Expectation #2

## **Industry Sector Strategy Focus:**

- \* Collaboratively build, expand and leverage industry, labor and community and technical college partnerships to support and promote responsive, rigorous, and relevant workforce education and training.*

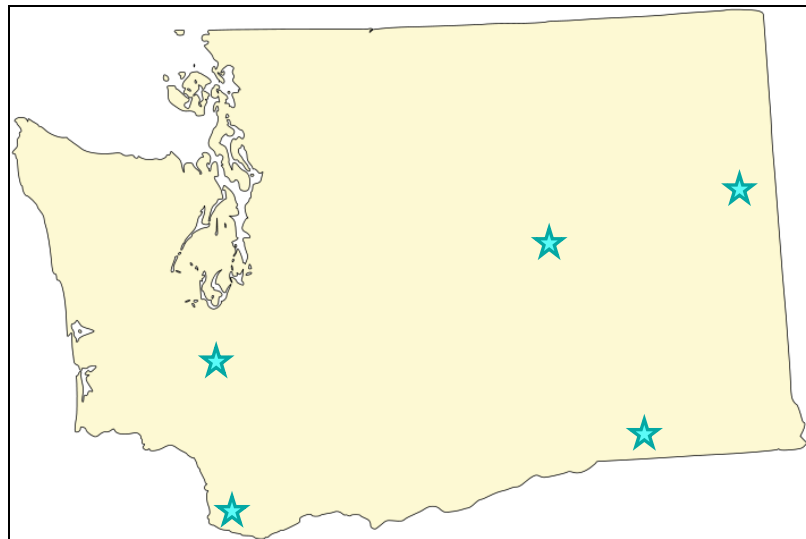




# Washington CTC's in Energy

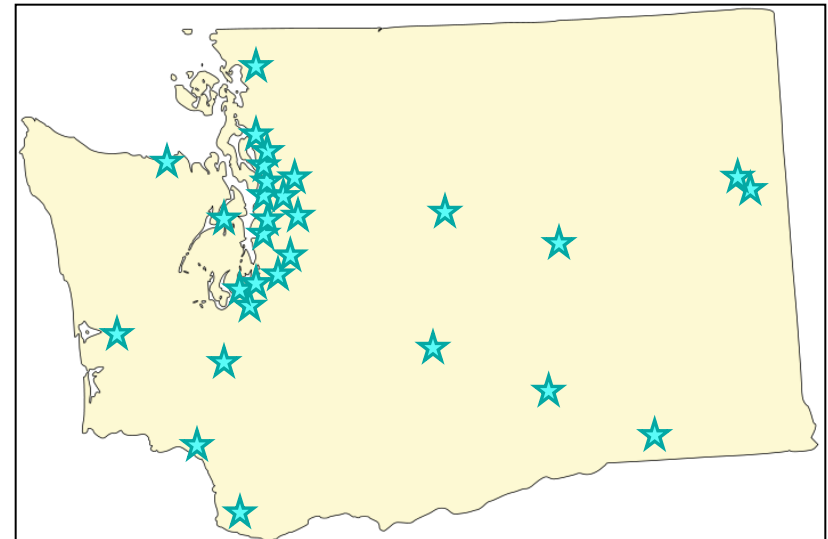
<http://cleanenergyexcellence.org/CollegePrograms/>

2005



Big Bend, Centralia, Clark, Spokane,  
Walla Walla Community Colleges

2014



“Niched Up” Energy Programs  
Expanded Scope Across the State

# Core Expectation #3

## **Education, Innovation and Efficiency Focus:**

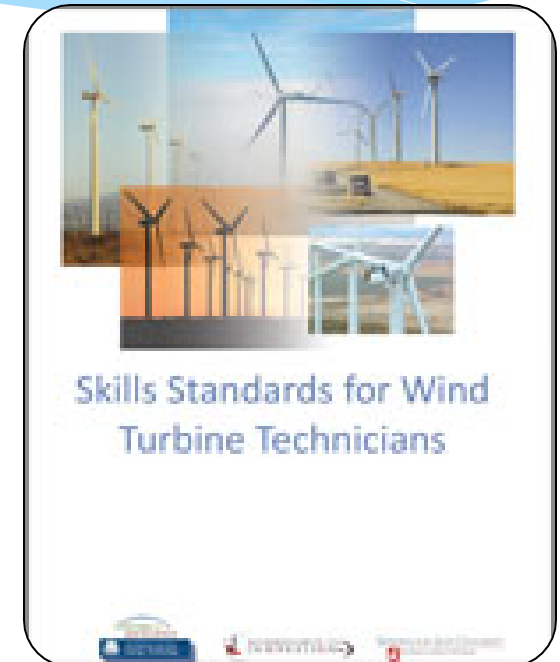
- \* Leverage resources and educational partnerships to create efficiencies and support development of curriculum and innovative delivery of educational strategies to build a diverse and competitive workforce.*



# Projects & Activities That Maintain Engagement

## Skill Panels

- Connecting industry and education
- Skill Standards: defining industry requirements
- Industry investment of direct dollars
- Seasoned crafts workers define standards
- 14 Standards Completed
  - Newest: Customer Service Representative



<http://cleanenergyexcellence.org/skill-panel/>

# Core Expectation #4

## **Workforce Supply/Demand Focus:**

- \* Research, analyze and disseminate information related to training capacity, skill gaps, trends, and best practices within each industry sector to support a viable new and incumbent workforce.*



# Gathering Labor Market Data

## A National and Regional Approach

### National

- \* 2009 National Commission on Energy Policy's Task Force on America's Energy Jobs
- \* 2009 IEEE Power and Energy Society (PES)
- \* 2011 Center for Energy Workforce Development

### Regional

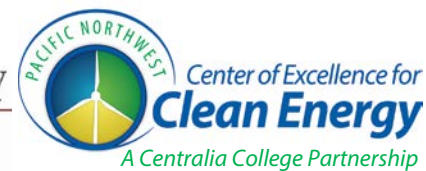
- \* 2008 Workforce Challenges of the Electric Sector
- \* 2009 Northwest Energy Efficiency Study
- \* 2013 Workforce Challenges of Electric Power Employers in the Pacific Northwest

# 2013 Labor Market Study

## Participants - 5 State Approach

- Avista
- Bonneville Power Admin
- Chelan County PUD
- Energy Northwest
- Grant County PUD
- Grays Harbor County PUD
- Idaho Power
- NorthWestern Energy
- PacifiCorp
- Portland General Electric
- Puget Sound Energy
- Seattle City Light
- Snohomish County PUD
- Tacoma Power
- TransAlta (Centralia)
- U.S. Bureau of Reclamation

Funded through U.S. Dept of Energy Smart Grid Workforce Training Grant, 2010-13



# Three Major Factors

- \* Impending Retirements
- \* Shrinking Labor Pool
- \* Knowledge and Skill Gaps



Maintenance employees walk through the junction  
Photo courtesy of Chelan County PUD





# Developing a Pacific NW Smarter Grid Workforce

**Energy Northwest**  
Amanda, Nuclear Technician  
Columbia Basin CC



**Seattle City Light**  
Power Plant Operator  
Nick, IBEW 77  
Centralia College

**Grand Coulee**  
Brian, Hydro Operator  
IBEW 77  
Centralia College

**TransAlta**  
Plant Equipment Operators  
IBEW 125  
Grays Harbor & Centralia Colleges



**Wilson Construction**  
Apprentice Lineman  
Kris, IBEW 1245  
Avista/Spokane CC

**Tacoma Power**  
Hydroelectric Utility Worker  
Jake, IBEW 483  
Centralia College





# The 21<sup>st</sup> Century Skilled Workforce

## How do we train them?



# What is the role of the Centers Excellence Advisory Boards?

# Advisory Board Member's Role

- \* Attend two meetings per year;
- \* Provide advisory for Center projects and programs;
- \* Support Center activities such as the annual summit, Careers in Energy Week and other relevant events;
- \* Provide expertise for college programs, curriculum and skill standards;
- \* Support student mentoring and hiring;
- \* Submit letters of support for grant applications;
- \* Network and Have Fun!!

# Questions?

<http://www.coewa.com/>

<http://cleanenergyexcellence.org/>

