Washington’s Centers of Excellence

State Sector Strategy

Center of Excellence for Clean Energy Advisory Board Meeting
October 31, 2014

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Center of Excellence for Clean Energy
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 economic development
- Create highly skilled workforce
- Provide consistent curriculum
- Meet Industry needs
- Provide state-wide coordination
- “Air Traffic Control”
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/
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
Developing a Pacific NW Smarter Grid Workforce

Energy Northwest
Amanda, Nuclear Technician
Columbia Basin CC

TransAlta
Plant Equipment Operators
IBEW 125
Grays Harbor & Centralia Colleges

Grand Coulee
Brian, Hydro Operator
IBEW 77
Centralia College

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

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

Tacoma Power
Hydroelectric Utility Worker
Jake, IBEW 483
Centralia College
The 21st 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/