

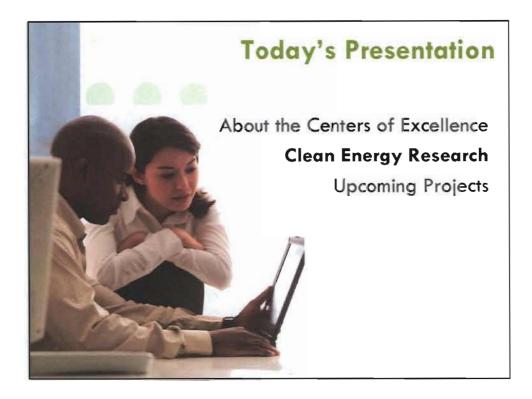
Centers of Excellence Mission

The COE, in partnership with business and industry, delivers regional workforce research customized for community college and workforce system decision making and resource development.



5 Regional Centers of Excellence

- Northern California
 Theresa Milan &
 Laura Coleman
 Los Rios CCD, Sacramento
- Bay Region
 John Carrese,
 City College of San Francisco
- Los Angeles Region
 Audrey Reille,
 Mt. San Antonio College, Los Angeles
- Central Valley
 Michelle Marquez,
 Modesto Junior College
- Inland Empire
 Zhenya Lindstrom,
 San Bernardino CCD



Clean Energy Research

- Research projects include energy efficiency, renewable energy, and transportation.
- Identify emerging or evolving occupations with relevance to community college education and training programs.
- Form partnerships with industry & conduct employer surveys.
- Inform community colleges on the workforce needs & challenges of employers in the region(s).

Energy Efficiency

- Broad industry definition includes public/private utilities and agencies, building design and construction, building operations and maintenance.
- · 8 occupations identified as having community college relevance.
- Partnerships with state and regional entities, including LBNL, PG&E, SoCal Edison, California Building Performance Contractors Association, USGBC regional chapters and more.
- More than 2,100 employers participated in the 2009 survey.
- · Research utilized by community colleges in different ways:
 - \$100k energy grant awarded to Southwestern College
 - Los Medanos College revised existing HVAC program
 - Norco College (Riverside) developing several for-credit electrician programs, including a renewable energy specialty

Renewable Energy

Research projects include solar, wind, and water

- Solar study conducted in 2008
 - Multiple regions
 - 5 target occupations
 - Colleges leveraged information for ARRA grant applications and for curriculum development
 - City College of San Francisco awarded a Department of Energy grant to train faculty to teach solar curricula
 - Skyline College added a for-credit Solar Design, Estimation and Sales program
 - Fresno City College created a non-credit Solar Installer program

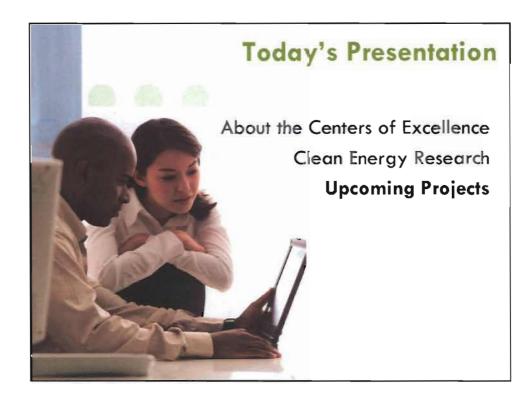
Renewable Energy

- Wind Turbine Technicians study conducted in 2009
 - Regional emphasis on regions where wind energy is already established as an employer
 - Recommendations to colleges
 - Limit program development to colleges within a 20-mile radius of wind farms
 - Utilize existing non-credit curricula to meet immediate employer needs



Renewable Energy

- Bay Region Water and Wastewater study, 2009-10
 - Multi-county study of water and wastewater utilities/agencies
 - Partnership with BAYWORK, Bay Area water/wastewater workforce development collaborative
 - 7 occupations identified
 - Emphasis on retirement rates, need for replacement workers
 - Informed workforce education and planning efforts
 - BAYWORK member agencies utilized the survey results and analysis for workforce planning
 - Survey research duplicated in other areas by industry and regional planning agencies
 - Columbia College new for-credit wastewater operator program
 - Cuyamaca College revised existing water/wastewater technology program



Transportation

Past, Present and Future

- In the past, COE research on transportation has focused on traditional occupations, such as motorcycle mechanics, railway, and logistics
- Currently, the Bay Region COE is conducting a hybrid vehicle study
 - Emphasis on maintenance and repair occupations
 - Survey of employers in Alameda, Contra Costa and Solano counties
 - Pilot for additional hybrid vehicle studies in other regions

Transportation

Past, Present and Future

- Looking forward, the COE, on behalf of the CEC, will be conducting statewide and regional research
 - Research objectives include:
 - Thorough inventory of existing transportation programs offered by community colleges
 - Statewide industry assessment to determine regional concentrations of transportation employers
 - · Regional research of industry trends and related occupations
 - Align transportation education and training development to labor market needs

Related Research

In 2010-11, COE staff will also be ...

- Contributing to the California Workforce Education & Training Needs Assessment for Energy Efficiency, Demand-Side Management and Distributed Generation
- Conducting preliminary research into utility-scale solar
- Partnering with EDD's Labor Market Information Division (LMID) to conduct in-depth research of the skills, tasks, and abilities needed for green occupations

Thank You!

Elaine Gaertner Statewide Director elaine@elaineg.net

Laura Coleman
Project Director, Northern California
colemal@losrios.edu

