

Green Jobs Training in the Sacramento Region



Green Capital Alliance Partners



Workforce Development for Clean Energy/Green Jobs



Higher Education: UC Davis

- 575 Engineers per year
- Green Entrepreneurship Academy in MBA program
- UC Extension Certificates in Green Building and LEED Certification
- \$30 million “green” related research

Sacramento State

- Power Engineering
- Leader in SMARTGrid Technology

Workforce Development: Workforce Investment Boards, Community Colleges and Labor

- Create list of clean energy companies in the region
- Identify occupations that are growing or emerging
- Identify skills that workers will need
- Ensure that graduates of education and training providers are prepared.



HOW?



American Recovery and Reinvestment Act of 2009

- U.S. Department of Labor
- California Workforce Investment Board
- California Employment Development Department
- California Energy Commission State Energy Programs
- AB118 Alternative and Renewable Fuel and Vehicle Technology Program



Strategy 1- Recovery Act Training & Business Development

- Occupational Skills Training

- Weatherization and Retrofitting Technician/Specialist
- Home Energy Auditor
- Solar Thermal Installer
- Solar Installer – Photovoltaic
- Sustainable Facilities Management
- Energy Sales and Design



- On-the-Job Training

- Green Building/Energy Retrofit
- Production and Installation



- Business Development

- Sacramento Area Regional Technology Alliance (SARTA)

Strategy 2 – Reach out to Youth

Green Job Corps



- Recruit 100 youth
- Green Pre-apprenticeship
 - American River College
 - Yuba Community College
 - Sierra Business Council
- Environmental Stewardship
- Paid Community Service
 - Center for Land-based Training
 - Sacramento Tree Foundation
 - Soil Born Farms



Strategy 3 - Clean Energy Workforce Training Programs

- **Alternative Vehicles and Fuel**
- **Green Building Retraining Partnership**
- **Green Building Pre-apprenticeship Partnership**



Sacramento Clean Energy Workforce Training Programs *Alternative Vehicles and Fuel*



**Entry-level alternative vehicle and fuel system training to unemployed adults
AND
Upgrade skills training to currently employed technicians**

American River College – Entry Level Training

Alternative Vehicles and Fuel Certificate

- Biodiesel
- Advance Electrical
- Hybrid Technology
- Alternative Fuels and Vehicles
- Advanced Drive Trains
- Lithium-ion batteries
- Regenerative braking systems
- Hybrid Diesel systems



Clean/Green Diesel Certificate

- Biodiesel Fuel and Fuel Systems
- Clean Diesel Systems
- Clean Diesel Rebuild, Replace, Repower
- Diesel Engine Repair
- Clean Diesel Retrofit
- Clean Diesel Software Support



American River College – Industry Training

- Off road Diesel Retrofit
- Electric Vehicles
- Compressed Natural Gas
- Alternative Fuels and Vehicles



Sacramento Clean Energy Workforce Training Programs

Green Building Pre-Apprenticeship



American River College

Pre -apprenticeship programs with a broad understanding of green technology codes, materials, processes, and practices for efficient energy utilization.

- Pre-Apprenticeship Training Certificate
- Green Building Pre-Apprenticeship Certificate

Cosumnes River College

• Pre-Apprenticeship Training Green Building Certificate

- Weatherization Technician Certificate
- Home Energy Audit Certificate



Sacramento Area Electrical Training Center

•Pre-Apprenticeship Electrician Training Certificate

SMUD Energy Technology Center

•Build It Green Courses and Certification



Sacramento Clean Energy Workforce Training Programs

Green Building Retraining



Green Journey-Level Training

In Coordination with American River College

- Solar Technology, High Efficiency Lighting – IBEW Sacramento Area Electrical Training Center
- Solar Thermal, Green Plumbing – Plumbers & Pipe Fitters JATC
- HVAC & Building, Energy Efficiency – Sacramento Valley Sheet Metal Workers JATC
- Energy Efficiency, Green Building – Carpenters Local 42

Green Building Training By Industry Partners

- Certified Green Building Professional Training – SMUD
- Green Heating, Ventilation, Air Contractors – NATE/Beutler
- Certified Green Plumbers, Certified Solar Hot Water Installer – Green Plumbers USA
- HERS Raters, HERS Energy Analyst – Los Rios Community College/TRANE

Green Certifications

- Build It Green
- Solar Technology/NABCEP
- High Efficiency Lighting
- Energy Efficiency Green Building
- Solar Thermal
- Green Plumbing
- HVAC & Building Energy Efficiency
- HERS Analyst & Rater



Accomplishments and Outcomes

- Public Awareness of emerging green jobs
 - Research – what are the jobs and who are the employers
 - Green Career Exploration
 - Green Corps – targeting youth
- Created and/or expanded curriculum for green jobs training for
 - Community college certificate programs
 - Joint Apprenticeship Training Councils
 - Private training providers
- Developed 665 training slots for green jobs
- In the Near FUTURE, there will be

JOBS, JOBS, JOBS