

The Green Collar Jobs Council

California's Inventory of Grants and
Training for the Green Economy

March 17, 2010



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California Clean Energy Workforce Training Program 2009/10 – American Recovery and Reinvestment Act WIA/SEP and AB 118 funds

Award List and Project Summaries

On October 2, 2009, grants were awarded to 34 organizations under the Governor's California Clean Energy Workforce Training Program. Project descriptions, award amount, and contact information are listed below. Award decisions are final.

Green Building and Clean Energy Retraining Partnerships

Applicant Name	County	WIA 15 Percent Amount	State Energy Program Amount	Total Award
Contra Costa Community College District	Contra Costa	\$395,235	\$604,765	\$1,000,000
Grossmont-Cuyamaca Community College District	San Diego	\$395,235	\$604,765	\$1,000,000
Humboldt County	Humboldt	\$351,651	\$538,074	\$889,725
Kern Community College District	Kern	\$302,910	\$463,496	\$766,406
Long Beach Community College District	Los Angeles	\$376,732	\$576,454	\$953,186
Los Angeles County	Los Angeles	\$395,235	\$604,765	\$1,000,000
North Orange County Community College District	Orange	\$395,235	\$604,765	\$1,000,000
Northern Rural Training and Employment Consortium	Butte	\$395,235	\$604,765	\$1,000,000
Sacramento Employment Training Agency	Sacramento	\$394,369	\$603,441	\$997,810
Sonoma County	Sonoma	\$395,235	\$604,765	\$1,000,000
Subtotal		\$3,797,072	\$5,810,055	\$9,607,127

Green Building and Clean Energy Pre-Apprenticeship Training Partnerships

Applicant Name	County	WIA 15 Percent Amount	State Energy Program Amount	Total Award
College of the Desert	Riverside	\$322,450	\$493,393	\$815,843
Hartnell College	Monterey	\$395,180	\$604,682	\$999,862
Humboldt County	Humboldt	\$285,573	\$436,967	\$722,540
Imperial Valley College	Imperial	\$173,737	\$265,841	\$439,578
Kern/Inyo/Mono Consortium	Kern	\$126,339	\$193,316	\$319,655
Long Beach Community College District	Los Angeles	\$385,773	\$590,287	\$976,060
Los Angeles City	Los Angeles	\$395,235	\$604,765	\$1,000,000
Los Angeles Trade Technical College	Los Angeles	\$395,235	\$604,765	\$1,000,000
Northern Rural Training and Employment Consortium	Butte	\$395,235	\$604,765	\$1,000,000
Peralta Community College District	Alameda	\$395,235	\$604,765	\$1,000,000
Richmond City	Contra Costa	\$395,235	\$604,765	\$1,000,000
Sacramento Employment Training Agency	Sacramento	\$382,857	\$585,825	\$968,682
San Bernardino Community College District	San Bernardino	\$343,717	\$525,934	\$869,651
San Diego Workforce Partnership	San Diego	\$276,665	\$423,335	\$700,000
San Francisco Department of Economic & Workforce Development	San Francisco	\$394,662	\$603,888	\$998,550
San Luis Obispo County	San Luis Obispo	\$241,115	\$368,940	\$610,055
Solano Community College	Solano	\$165,505	\$253,246	\$418,751
South Bay Workforce Investment Board	Los Angeles	\$209,418	\$320,440	\$529,858
Subtotal		\$5,679,166	\$8,689,919	\$14,369,085

Alternative and Renewable Fuel and Vehicle Technologies Workforce Development and Training Program

Applicant Name	County	WIA 15 Percent Amount	AB 118 Amt	Total Award
Imperial County	Imperial	\$100,000	\$400,000	\$500,000
Long Beach City	Los Angeles	\$100,000	\$400,000	\$500,000
Los Angeles County	Los Angeles	\$100,000	\$400,000	\$500,000
Richmond City	Contra Costa	\$100,000	\$400,000	\$500,000
Sacramento Employment Training Agency	Sacramento	\$100,000	\$400,000	\$500,000
San Francisco Department of Economic & Workforce Development	San Francisco	\$67,500	\$210,000	\$277,500
Subtotal		\$567,500	\$2,210,000	\$2,777,500

Grand Total Award **\$10,043,738** **\$16,709,974** **\$26,753,712**

Contra Costa Community College District

500 Court Street
Martinez, CA 94553

Deborah Blue
(925) 229-1000

Award Amount: \$1,000,000

Summary: The Contra Costa Community College District, in collaboration with the Contra Costa Workforce Development Board and other partners, proposes the Contra Costa Green Building Retraining Partnership (CCGBRP). The CCGBRP targets Contra Costa County and the larger East Bay region of the San Francisco Bay Area. It will focus on retraining unemployed and underemployed workers with construction experience for “green collar” jobs and career pathways in the both the solar and energy efficiency industries. Recent studies indicate that employers in these sectors expect to see growing numbers of job openings in numerous positions, including: solar photovoltaic installer; solar thermal technician; solar installation manager/project foreman; solar designer/engineer; heating, air conditioning, and refrigeration technician; HVAC maintenance/repair trainee; green plumber & pipefitter; residential/ commercial/industrial energy field auditor; home energy rating specialist; building analyst; building performance contractor; building envelope specialist; and weatherization auditor. At the same time, employers indicate great difficulty finding qualified personnel for many of these occupations. Other reports on the “green economy” in our region and nationally indicate that workers with construction experience are the “primary recruiting pool” for green collar Green Building jobs, and call for community colleges to expand their training programs in order to meet the demand to train workers for these positions. The CCGBRP’s training program will be implemented at our community colleges: Contra Costa College in the west county area, Diablo Valley College in central county, and Los Medanos College in east Contra Costa County. Each will augment its existing construction training program by developing and offering new training options that address both the demand for new workforce skill sets in the solar and energy efficiency industries and the retraining needs of workers in the construction industry recently downsized as a result of the real estate slump. Each college will offer training on the State Energy Efficiency Standards and preparation for the Green Building Professional certification as part of a sequential course of study and various training options workers can complete during the grant period. Discrete training paths will focus on Solar Photovoltaic, Solar Thermal Systems, Building Analyst/Envelope Specialist, Heating and Cooling Professional, Water/Energy Auditing, and other specializations. Workers will be trained for the Green Building jobs listed earlier, have opportunities to earn multiple industry-recognized certifications, and will be assisted to obtain employment. Some will be equipped to start or restart their own Green Building businesses. Those who obtain employment as entry-level installers and technicians in solar and energy efficiency jobs can, with experience and in some cases further training, move up to positions as systems designers, project foremen, sales representatives, and management positions, or can start their own companies. The CCGBRP will serve at least 180 participants during the grant period. It will also substantially expand our three colleges’ capacity to provide training for these jobs and career pathways in the future. Other CCGBRP partners include the City of Richmond/RichmondBUILD program, Solar Richmond, West County Business Development Center, Contra Costa County Department of Conservation and Development, and several businesses that will be on our Green Business Council advisory group and provide jobs for training graduates.

Grossmont-Cuyamaca Community College District

900 Rancho San Diego Parkway
El Cajon, CA 92019

Darlene Spoor
(619) 660-4670

Award Amount: \$1,000,000

Summary: California is experiencing unprecedented growth in the green building industry. This growth has subsequently increased the demand for skilled workers. Additionally, the influx of funding through the Energy Efficiency and Conservation Block Grant (EECBG) Program for local cities and the passage of legislation such as Assembly Bill (AB) 1470 and AB811 will further increase this demand. To meet the needs for additional skilled workers, California must focus on retraining its workforce in the areas of clean, affordable energy. Unemployed or underemployed workers with previous construction experience are an ideal target for this effort. This target population can quickly build upon their existing skills with green training provided by community colleges that will prepare them for jobs in the green building industry.

As a leader in “green” economic and workforce development in San Diego County, the second largest county in the state, the Grossmont-Cuyamaca Community College District (GCCCD) is uniquely positioned to lead the effort of creating and implementing workforce training programs that address the need for skilled workers in the green building industry. Green workforce training is nothing new at Cuyamaca College who has been offering certificates and degrees in water/wastewater technology, environmental health and safety, sustainable landscaping and most recently renewable energy for over 20 years. Included in the GCCCD’s efforts will be several partners that will provides unique resources, expertise, and other support to prepare a dynamic green workforce in San Diego County. Partners for this proposal include Palomar College, a network of local One Stop Career Centers, California Center for Sustainable Energy (CCSE), local economic development councils, the County and City of San Diego, San Diego Gas & Electric, numerous non-profit organizations, the San Diego Housing Commission, the Small Business Administration and many others.

This industry sector strategy includes the implementation of two training hubs that are easily accessible to San Diego County residents: Cuyamaca College in the south and Palomar College in the north. Each hub will provide a variety of comprehensive industry-recognized training programs, serving between 200 and 300 students throughout the region, in the following areas: Green Building Professional, Building Analyst Professional, Home Energy Rater, Water Auditor, Solar Photovoltaic Installer and Solar Thermal Installer. This effort will be led by the GCCCD and a dynamic Green Employer Council made up of industry experts that provide oversight and assurance that community college programs reflect relevant training for real world jobs. The Green Employer Council will also provide opportunities for employment for program graduates.

The San Diego Green Building Training Collaborative will continue long after the 18 month funded term of this grant. Cuyamaca and Palomar colleges, as well as our industry sector partners participating in this project, are committed to workforce and economic development and fully support this program. Upon completion of the program, every effort will be made to absorb this

program into the ongoing functions of the college. Once curriculum has been developed, it will be available for implementation at other California community colleges throughout the State, K-12 Pathway programs and universities who require curriculum, project structure or trained instructors. California Clean Energy Workforce Training is here to stay!

Humboldt County
520 E Street
Eureka, CA 95503

Jacqueline Debets
(707) 445-7745

Award Amount: \$889,725

Summary: The Redwood Coast Green Pre-Apprenticeship Program will train 100 out of school youth, underemployed and unemployed, new entrants to the workforce from Humboldt and Del Norte counties for green building careers in two of the fastest growing industries in the Redwood Coast region—the Building & Systems Construction & Maintenance industry and the Management & Innovation Services industry. In a regional cluster study produced by the Humboldt County Workforce Investment Board, called Targets of Opportunity, these industries were two of the six that together grew new jobs 37% in the fifteen year period of the study. The Building & Systems Construction & Maintenance industry grew jobs 33% and the Management & Innovation Services industry grew new jobs 125% in that period. While the national recession has slowed job growth, these industries contain our region’s green industry sectors and are projected to open new jobs in the next two years, and indicate a strong demand for green skilled workforce. Del Norte and Humboldt counties are collaborating to build a practical and achievable re-training program with 15 partners across a large, rural area within the region: College of the Redwoods; Eureka Adult School; The Job Market (Humboldt County one-stop operator); Workforce Center—Del Norte; City of Arcata; Yurok Indian Housing Authority; Humboldt Bay Municipal Water District; DANCO Builders; Redwood Coast Energy Authority; Redwood Community Action Agency; A-Step program for Indian youth employment; Maple Service, Inc; Greenway Partners, Inc.; Plan It Green; and the Carpenter’s Union Local 751. Training will be offered in a series of classes: (1) Environmental Training, Introduction to Green Building, (2) Energy Fundamentals, (3) Retrofits & Energy Efficiency, Water Efficient, (4) Building And Retrofits, (5) Solar Hot Water Installation and Design Principles, (6) Solar Electricity Installation and Design Principles, (7) OSHA safety. Additional training for basic and soft skills will prepare new entrants into the workforce to be successful Participants will enter and complete training in cohorts (or “flights”) of their peers to encourage team work and networking. All flights will include union orientation to understand the opportunities, benefits and operations of union apprenticeship programs. As each flight completes their training, participants will be placed in work experience training, and then supported through the process of permanent hiring or union apprenticeships. Participants will learn about these opportunities through union apprenticeship coordinators for carpentry, electricians, laborers, operating engineers and plumbers unions. Graduating participants will be prepared for entry-level work as wastewater technicians, energy efficiency building technicians, rough carpentry workers, HVAC installers assistants, green plumbing assistances, solar installation assistants, and general maintenance and repair workers. Our Green Employer Council, lead by Plan It Green, actively supports this training grant, many of who will provide work experience training for graduates.

Kern Community College District

2100 Chester Avenue
Bakerfield, CA 93301

John Means
(661) 336-5036

Award Amount: \$766,406

Summary: The Kern Community College District, the Kern, Inyo, Mono and Tulare WIBs, industry, labor and project partners propose to train 350 utility workers including 160 wind and 80 solar (pv/thermal) operations and maintenance technicians to address current workforce shortages and to address increased demand to support the growth of renewable energy in the Kern, Inyo, Mono and Tulare county region. These shortages are the result of the confluence of the current economic recession, retiring senior workforce members, delays in the entry of younger workers and compounded by governmental RPS standards and exploding capital investment in renewable energy generation as well as transmission and distribution infrastructure.

The project area is ripe for workforce development investment given that it is host to significant renewable generation resources, acknowledged by the presence of five Competitive Renewable Energy Zones (CREZs) and expected to account for nearly half of the electricity needed to reach the 33% x California RPS standard. Furthermore, although the Tehachapi/Owens/Mojave (CREZ) areas have relatively low density rural population; urban population centers served by the Kern and West Kern Community College Districts.

In response, the Kern Community College District, along with it's partners, has developed a training program for unemployed and underemployed workers, with a focus on those with construction experience and prepares them for entry-level occupations as a utility worker, wind and solar operations and maintenance technicians. The training program provides a solid foundation in renewable energy principles, utility technology fundamentals and technical knowledge required in the utility-scale renewable energy fields. The proposed training program includes classroom and hands-on training that provides program participants with job skills in wind and solar generation, and electricity transmission and distribution. Program graduates are equipped with the skills to be successful in apprenticeship programs in related fields or to progress in data analysis or management level positions.

Long Beach Community College District

4901 E. Carson Street
Long Beach, CA 90808

Gail Schwandner
(562) 938-3023

Award Amount: \$953,186

Summary: According to the U.S. Green Building Council, buildings in the United States account for 36% of total energy use and 30% of greenhouse gas emissions. Given the rising cost of pollution-related health hazards and given current water and energy shortages, conservation and efficiency have become a vital part of the emerging green sector. While the City of Long Beach has been hit disproportionately hard by the economic downturn with an unemployment rate of 13.7% last July 2009, greening of the city economy holds the promise of fostering a robust and vibrant economy that simultaneously remedy the water and energy shortages and provide the local workforce with higher-wages, good benefits, and a more rewarding occupation.

In recent years, both the City and Port of Long Beach have adopted sustainability and green initiatives as part of their strategic plans. As two of the largest employers in the Region, their strategic plans directly affect the technical needs of the workforce. The City of Long Beach has made sustainability a primary strategic goal, recognizing the urgency and importance of transforming Long Beach. The City of Long Beach's Office of Sustainability was created to facilitate the process of developing and implementing model sustainability programs for the City of Long Beach. Similarly, the Port of Long Beach in 2005 adopted the Green Port Policy by employing the best available technology to avoid or reduce negative environmental impacts of Port operations. In view of the region's current efforts, the targeted industries through this proposal are: (1) Design and Construction of New Buildings, (2) Deep Building Retrofit, and (3) Retro-Commissioning of Existing Buildings.

Partnering with the City of Long Beach, the Port of Long Beach, Pacific Gateway Workforce Investment Board, Southern California Edison, McCarthy Construction Co., Siemens USA and local small businesses has facilitated Long Beach City College's deep understanding of the region's green building and water/energy efficiency industry dynamics as well as the employers' specific workforce needs. This Green Building and Water/Energy Efficiency Workforce Training Partnership strategy has identified the training program leading to four career pathways in green building and water/energy efficiency to address the regional workforce needs of employers as well as career advancement needs of workers.

The Program will target unemployed or underemployed workers with a focus on workers with construction experience. The intent is to build upon the individuals existing construction skills and provide new skill development to retool them for employment in the green building and water/energy efficiency industries. The proposed project will target three distinct yet complimentary segments of the regional population. These population segments include the (1) unemployed, and recently dislocated workers with transferable skills, (2) recently returned veteran's population, and (3) incumbent worker segment of the population.

The LBCC Green Building and Water/Energy Efficiency Re-Training Program encompasses technical training modules in (1) Green Building Overview, (2) Title 24 Overview, (3) Certified Green Building Professional, (4) LEED® Green Associate, (5) Home

Energy Rating System, (6) Home and Building Performance Analyst, (7) Certified Hot Water Installer, and (8) Building Information Modeling. Imbedded with field trainings, all technical modules are supplied by industry-certifying organization. Doing so enables participants to gain cutting-edge training directly from industry, easily transition through the industry exam intake and certification, and prepare participants for the following occupations: (1) Building Performance or Retrofitting Specialists, (2) Building or Home Energy Raters, (3) Water/ Energy Auditor, and (4) Project Managers/ Coordinators/ Specialists for Construction or Design Work.

These modules were chosen because they provide a foundation for career pathways into higher-skill specializations within the industry. Certification provides participants with value-added benefits to guarantee the quality of expertise and elevate job quality across the industry. Participants are offered an opportunity to build strong career ladders into jobs with family-sustaining wages for currently unemployed and underemployed workers, thus bolstering the region's economic welfare and social stability as well as addressing the emerging workforce need of employers.

Los Angeles County
3175 West Sixth Street, Room 300
Los Angeles, CA 90020

Josie Marquez
(213) 738-3175

Award Amount: \$1,000,000

Summary: The Los Angeles County Workforce Investment Board (WIB) and its regional partners will serve 150 incumbent and underemployed/unemployed workers throughout the Los Angeles target region. It will provide a series of short-term training events and wrap-around services towards the green-building career pathways - leveraging local, state and Federal resources. The primary partners will be the Los Angeles Community College District (LACCD) and its nine-college infrastructure, the City of Los Angeles Workforce Investment Board, local and regional employers (such as Energy Crews Company, IMANI Energy, Inc., Sunshine Solar Energy Inc., SolarCity, INTI Energy Solutions, CA Conservation Corp (Operations and Facilities Division), and Go Green Solar).

The target group will include incumbent workers and underemployed/unemployed workers that are interested in the focused industry. Although not required, this project will also serve special needs populations that include veterans, individuals lacking a GED, and applicants living below 50% the area medium income. All participants will be offered short-term training activities that include the following:

- Code Training
- Principles of Green Construction
- LEED Certification Preparation
- Green Plumbing Principles and Certification Workshop
- Principles of Weatherization and Envelope Sealing
- Home Energy Audits and Rating systems
- Building Performance Institute Certification Training for Envelope Professional, Building Analyst Professional and Building Performance Contractor
- Solar/PV Installation

The purpose of the project is to prepare participants for emerging careers in the green-building sector and enhance their career mobility towards emerging fields. It is supported by regional employers, the local LA City and County One-Stop Center system, and sector-based associations such as the Green-WEST Alliance. Upon successful completion of the project's array of services, participants can be poised for successful careers such as Green Plumbing Contractors, Green Construction Managers/LEED Certified, Building Analyst, HVAC Contractor, Solar PV Installer, Energy Efficiency Auditor / Energy Efficiency Installation, and Solar Thermal Installation.

North Orange County Community College District

1830 W. Romneya Drive
Anaheim, CA 92801

Perla Fickenscher
(714) 808-4620

Award Amount: \$1,000,000

Summary: The Green Building Training Program for So Cal will deliver a comprehensive training set of 8 courses:

1. Certified Green Building Professional
2. Title 24 CA Energy Efficiency Standards
3. Building Analyst Professional
4. Envelope Professional
5. Home Energy Rater
6. Building Performance Contractor
7. Water/Energy Auditor
8. Accredited Green Plumber

Before taking any of these courses, trainees will be assessed based on basic skills. Those whose skill level is below the accepted level will be advised to take a free Boot Camp to develop their Math and English skills.

The target population is the unemployed and underemployed population of LA and Orange County and from the underserved areas of Southern California. Other target populations include US Veterans organization and local correction centers. We expect to interview over 200 prospective trainees, train 150-180 of these, and have 150 graduates from all or part of our program.

Future employers include construction companies who are doing projects in green building, plumbing industry, energy management firms involved in energy efficiency, the City of Anaheim Public Utilities Green Building Program, and job placement firms. Jobs could include construction projects in new green building or retrofit of old buildings, green jobs or projects with private businesses which plan to reduce carbon footprints, and other projects related to green technology.

A job developer will work with all project partners to assist trainees in finding employment. Students will also have the benefit of a case manager who will assist in job placement and retention. In addition, we have a Green Business Council which will consist of potential employers and can advise us on the employment climate.

Trainers will provide assistance to trainees who will apply for certification from certifying agencies such as Build it Green, the Building Performance Institute, and Green Plumbers USA. Others will receive certification for each class taken from the North Orange County Community College District.

**Northern Rural Training and Employment Consortium
525 Wall Street
Chico, CA 95928**

Charles Brown
(530) 892-9600

Award Amount: \$1,000,000

Summary: Targeted Region: The eleven (11) rural counties in Northern California, which include Butte, Del Norte, Lassen, Modoc, Nevada, Plumas, Shasta, Sierra, Siskiyou, Tehama and Trinity served by NoRTEC-WIB and North Far North Regional Consortium (NFNRC) of CA Community Colleges.

Targeted Industries: Energy Efficiency - Construction, Certified Green Building Professional, Home Energy Rater, Solar PV, Solar Thermal, Environmental Control Technology.

Primary Partners: NoRTEC-WIB, 11 County One-Stops, NFNRC (5 Community Colleges), Green Employer Council, Utilities,

Target Population: Dislocated construction workers, unemployed, underemployed and special needs groups, such as, veterans, language or education barriers, criminal convictions, et al.

Number of Participants: 117 total participants served, 70% attain certificate/degree, 74% placed, and 83% retained in employment.

Proposed training activities and description of the career pathways:

The foundation of the training provided will be the Core Curriculum: Introductory Craft Skills, from the National Center for Construction Education and Research. Core Construction Curriculum components include: Basic Safety, Construction Math, Hand Tools, Power Tools, Construction Drawings, Basic Rigging, Basic Communication Skills, Basic Employability Skills, and Materials Handling. This course will also be an articulated Tech Prep/ROP course. The entire Clean Energy Workforce Training Program at Butte College will be part of an articulated, sequenced pathway from the ROP/High School to Butte College to California State University, Chico. Other colleges in the region will be able to adopt these courses for articulation, programs of study and career pathways. Courses for required certifications:

1. Certified Green Building Professional
2. Home Energy Rater System (HERs)
3. California Energy Efficiency Standards and Codes
4. Solar Photovoltaic Design and Installation

5. Solar Thermal Installation
6. Environmental Control Technology

Occupations: Eight occupations have been identified with wage ranging from \$11 to \$64/hour. Energy Efficiency Managers, Construction Project Mgrs, Bldg Retrofit Spec, HVAC Mechanics/Tech/Installers, Energy Auditors/Home Energy Raters, Bldg Operators/Eng Compliance Analyst, and Bldg controls systems Tech

Sacramento Employment and Training Agency

925 Del Paso Boulevard
Sacramento, CA 95815

Robin Purdy
(916) 263-3860

Award Amount: \$997,810

Summary: The Sacramento Employment and Training Agency will enroll 200 job seekers with previous construction experience and an interest in green construction retraining in the Sacramento Green Building Retraining Initiative (SGBR). SETA will target unemployed and underemployed workers residing in the Sacramento Metropolitan region which includes El Dorado, Placer, Yolo, and Sacramento Counties. The goal of the SGBR is to enhance the skill-set of the talent pool and increase access to green building construction employment opportunities, thereby increasing the number of knowledgeable, skilled and stable employees in the green building and energy efficiency construction workforce.

The initiative will focus on the energy and water efficiency sector with upgrade skills training in several green career clusters including: solar power, green construction, energy efficiency, green plumbing, water efficiency and sustainability. The skills training will result in Industry-Identified Certificates including Certified Green Building Professional, Certified Photovoltaic Installer, Accredited Green Plumber, Certified Energy Auditor, HERS II raters and HERS II analyst.

The Green Capital Alliance, will act as the Green Employer Council for the initiative and provide oversight and ensure that programs reflect relevant training for real world jobs. Other partners include the Los Rios Community College District, American River College, the Sacramento Sierra Building and Construction Trades Council, Beutler Corporation, Sacramento Municipal Utilities District, Community Resource Project, Green Plumbers USA. The catalytic effect of retraining the available pool of construction workers in new technologies by developing an approach that is sustaining and can be duplicated throughout the state is transformative and persistent in nature.

Sonoma County

2227 Capricorn Way, Suite 207
Santa Rosa, CA 95407

Karen Fies
(707) 565-8501

Award Amount: \$1,000,000

Summary: NBEC proposes the Green Regional Education & Employment in the Northbay (GREEN) program in order to address the critical regional need and emerging opportunities to develop a green building workforce. GREEN utilizes a well-articulated sector strategy that unites the skills and capacities of four Local Workforce Investment Boards (LWIBs) in the counties of Marin, Napa, Solano, and Sonoma. In each county, community colleges, employers, labor, and community and business development organizations have joined forces with the LWIBs to create a robust regional effort that addresses the challenges of the green building industry, creates significant workforce capacity, and reinforces the statewide leadership these counties have shown by engaging workers and industry in creating new, clean energy futures closely aligned with local and statewide policies.

The impact of the recession has been particularly devastating in the targeted region with unemployment among construction workers currently estimated at 25%. At the same time, innovative policy efforts implementing AB 811 public financing programs for energy efficient homes and businesses are driving significant demand for workers in green building and energy efficiency projects. The result is a major opportunity to build regional capacity that provides unemployed and underemployed construction workers with new career pathways in the green building industry.

In addition to the LWIBs in each county, local community colleges and specialized training partners will provide workers with a sequenced array of green building training opportunities that build both general and specific skills most-in-demand by employers. A minimum of 300 workers from the targeted population of unemployed and underemployed construction workers will participate in training programs that link directly to occupations employers have identified as being most urgently needed. Workers will have the opportunity to move progressively from entry-level green building and energy efficiency certifications to more specialized training building long-term career pathways. NBEC estimates that these participants will earn over 400 industry-identified certificates. A total of 800 additional workers will receive information and referrals provided through seminars and other services available at participating One Stops.

Each participating LWIB will build significant capacity to continue supporting green building workforce development by employing a Green Navigator who will ensure close linkages between the LWIB, emerging green training opportunities, and the needs of the green building employers. The Green Navigators will be supported by state-of-the-art database systems that will project emerging workforce needs and link these to workers and relevant certification-based training programs. The net result will be the placement of over 220 workers in green building career pathways over the 18-month project period and the development of robust, long-term capacity to sustainably serve the growing regional needs of the green building industry.

College of the Desert
43-500 Monterey Avenue
Palm Desert, CA 92260

Larry McLaughlin
(760) 773-2595

Award Amount: \$815,843

Summary: The goal of the Desert Region Renewable Energy Training Program is to provide a clearly defined training pathway along with effective support services to inspire and enable eligible participants to become part of the state's renewable energy workforce. As the region's utility-scale solar energy industry begins to grow, companies will be searching for employees who understand the technology and possess the essential skills to work in system construction, maintenance, and operation. This program will reach out to new workforce entrants, unemployed, and underemployed workers with little or no construction experience to make the emerging renewable energy industry a source of employment opportunity. The program strategy consists of five basic elements:

1. Outreach and recruitment will be performed by partner organizations that have experience, credibility, and contacts in the community.
2. Eligibility and tracking will be provided by a Local Workforce Investment Board that is highly experienced serving this population.
3. Participants in need of basic skill improvement will be guided by a college advisor specifically trained in this program, population, and methods to maximize success.
4. Participants will be provided with knowledge and skills needed to gain employment in utility-scale solar power generation, plant construction, system maintenance, and operation.
5. Participants completing training will be assisted with placement into employment and/or an apprenticeship.

Classroom and hands-on training will be conducted to provide participants with a solid foundation in renewable energy principles, technology fundamentals, and utility-scale solar power generation. Participants will also be prepared for work in three trades that are prevalent in utility-scale solar plant construction: electrical/utility, pipefitting, and welding. This training will be at the pre-apprenticeship level. The program will prepare participants to obtain two industry recognized credentials, the North American Board of certified Energy Practitioners (NABCEP) Entry Level Certificate of Knowledge and the NABCEP Solar Thermal Installer Certification. To ensure success among those participants that may lack the requisite knowledge or skills coming into the program, a variety of basic skills courses will be available. A college advisor will work with participants in need of basic skills training prior to the renewable energy courses. Case management and employment placement services will also be provided by the program's Local Workforce Investment Board.

The Desert Region Renewable Energy Training Partnership was formed to address the need for appropriately skilled technicians in the utility-scale solar energy industry as this industry begins to grow in the region of east Riverside and south San Bernardino Counties. This area has been designated by the federal government as a priority for "fast-track" development of utility-scale solar energy. Funding of the training proposed by the partnership will be placing training resources where the industry needs them most and allow the growth of this industry to create employment opportunities for area residents.

Hartnell College
411 Central Avenue
Salinas, CA 93901

Mike Thomas
(831) 770-7082

Award Amount: \$999,862

Summary: The Monterey Bay Green Building/Pre-Apprenticeship Training Program will serve the Monterey Bay region - Monterey and Santa Cruz Counties. The region was selected because it combines and leverages infrastructure and resources that will support green industry growth, particularly in construction and solar energy. The project will serve a large population of unemployed, disadvantaged individuals from communities with high rates of poverty and low educational attainment (California Labor Market Information, 2008; U.S. Census American Community Survey, 2005). The project's targeted region and design are based on a comprehensive needs assessment and environmental scan as well as the results from the Hartnell College Survey of Commercial Construction Information Needs and Training of Local Interest (October 2007).

The project will provide comprehensive training and support that will enable participants to rapidly acquire the skills needed to secure full-time career track employment in the green building industry and/or succeed in additional postsecondary education programs. It will include: assessment; case management support; basic and soft skills development (see #2 below); general courses in green construction, solar energy, and water use; specialty courses in four career pathways - Electrician (Solar/PV), Green Plumbing (Solar/Thermal), Building Inspection or Greywater Design Installation & Maintenance; industry internships and apprenticeships; and job placement support.

The groups targeted by this project include unemployed and underemployed workers, new workforce entrants (high school graduates, equivalency completers), and special needs populations. Special needs population sub-groups especially targeted by this project will include: low income residents, at-risk youth, underrepresented groups (particularly women and Latinos), out-school-youth and residents (lacking a diploma or GED), and limited English proficient and English as a second language residents. The target groups were identified through an extensive needs assessment process.

Hartnell College, the lead applicant, has formed partnerships with Cabrillo College, the Monterey County Workforce Investment Board, and the Santa Cruz County Workforce Investment Board. All required partners have been involved in the design of this project and are committed to membership on the project advisory board; implementing outreach and recruitment; delivering assessment services; providing instructional delivery (as appropriate for each partner); and supporting project management and evaluation. Each partner has agreed to formally provide specific services and matching support for this project.

The project will result in enrolling 140 targeted participants and will meet all required performance goals, including achieving: an 80% training completion rate; 71% certificate/degree completion rate; and an 81% employment retention rate.

Humboldt County
520 E Street
Eureka, CA 95503

Jacqueline Debets
(707) 445-7745

Award Amount: \$ 722,540

Summary: The Redwood Coast Green Pre-Apprenticeship Program will train 100 out of school youth, underemployed and unemployed, new entrants to the workforce from Humboldt and Del Norte counties for green building careers in two of the fastest growing industries in the Redwood Coast region—the Building & Systems Construction & Maintenance industry and the Management & Innovation Services industry. In a regional cluster study produced by the Humboldt County Workforce Investment Board, called Targets of Opportunity, these industries were two of the six that together grew new jobs 37% in the fifteen year period of the study. The Building & Systems Construction & Maintenance industry grew jobs 33% and the Management & Innovation Services industry grew new jobs 125% in that period. While the national recession has slowed job growth, these industries contain our region’s green industry sectors and are projected to open new jobs in the next two years, and indicate a strong demand for green skilled workforce. Del Norte and Humboldt counties are collaborating to build a practical and achievable re-training program with 15 partners across a large, rural area within the region: College of the Redwoods; Eureka Adult School; The Job Market (Humboldt County one-stop operator); Workforce Center—Del Norte; City of Arcata; Yurok Indian Housing Authority; Humboldt Bay Municipal Water District; DANCO Builders; Redwood Coast Energy Authority; Redwood Community Action Agency; A-Step program for Indian youth employment; Maple Service, Inc; Greenway Partners, Inc.; Plan It Green; and the Carpenter’s Union Local 751. Training will be offered in a series of classes: (1)Environmental Training, Introduction to Green Building, (2) Energy Fundamentals, (3) Retrofits & Energy Efficiency, Water Efficient, (4) Building And Retrofits, (5) Solar Hot Water Installation and Design Principles, (6) Solar Electricity Installation and Design Principles, (7) OSHA safety. Additional training for basic and soft skills will prepare new entrants into the workforce to be successful Participants will enter and complete training in cohorts (or “flights”) of their peers to encourage team work and networking. All flights will include union orientation to understand the opportunities, benefits and operations of union apprenticeship programs. As each flight completes their training, participants will be placed in work experience training, and then supported through the process of permanent hiring or union apprenticeships. Participants will learn about these opportunities through union apprenticeship coordinators for carpentry, electricians, laborers, operating engineers and plumbers unions. Graduating participants will be prepared for entry-level work as wastewater technicians, energy efficiency building technicians, rough carpentry workers, HVAC installers assistants, green plumbing assistances, solar installation assistants, and general maintenance and repair workers. Our Green Employer Council, lead by Plan It Green, actively supports this training grant, many of who will provide work experience training for graduates.

Imperial Valley College

380 East Aten Road
Imperial, CA 92251

Gonzalo Huerta
(760) 355-6419

Award Amount: \$439,578

Summary: Imperial Valley College (IVC) is pleased to submit the grant solicitation under the California GREEN Energy Workforce Training Program. Building Green Retrofitted Energy Efficient Neighborhoods (B-GREEN) Grant proposal depicts a pathway out of poverty for Imperial County residents who are unemployed, under employed and come from disadvantaged backgrounds. This proposal will open the doors of hope and success for Imperial County residents by providing a Green Technology Certificate, concurrently with Basic Skills training and Workforce Skills training. Completion of this training will enable participants to become self-sufficient and overcome the challenges that impoverish this community. Imperial Valley College and Imperial County Workforce Development Board unite to battle against poverty and the barriers that Imperial County residents face.

IVC is a two-year accredited institution by the Western Association of Schools and Colleges (WASC). IVC serves all of Imperial County which is located on the southeast corner of California and is bordered to the east by the State of Arizona; to the west by San Diego County; and to the south by the country of Mexico. The population in Imperial County is 176,158. The PUMA for Imperial County is 21%. The population is heavily Hispanic (78%) and is concentrated on three major cities of Imperial County (Brawley, Calexico, and El Centro). Imperial County has recently been notorious by major national news media (NY Times, LA Times, CNN) as the best representation of the national economic crisis including the highest unemployment rate in the nation 30.2%, this compares with an unadjusted unemployment rate of 12.1 % for California and 9.7% for the nation during the same period (Employment Development Department, 2009).

The B-GREEN Grant proposal will prepare students to take advantage of emerging opportunities in the energy efficiency industry with a focus on energy efficient construction and deconstruction, as well as energy efficiency assessments. The curriculum includes: Environmental Literacy, Introduction to Green Building, Energy Fundamentals, Retrofits and Energy Efficiency, Water Efficient Building and Retrofits, Solar Hot Water Installation and Design Principles, Solar Electricity installations and case and Design Principles and Workforce Entry assistance and case management. The training was developed in coordination with Imperial County Workforce Development Board. The B-GREEN proposal will train 25 participants to work in the following green energy occupations: Building and Performance Retrofitting Specialist, Resource Conservation or Energy Efficiency Technician, Energy Auditors or Home Energy Raters and Energy Regulation

Recruitment for this program will include youth and adults 18 years and older that are unemployed, underemployed or new workforce entrants. They will have little or no construction experience. Our goal is for at least 30 percent of the total program participants to come from the following special needs populations: At-risk and out of school youth, individuals from households

with an income 50 percent below the county's median income, the chronically unemployed, recipients of public assistance, and limited English skills or English as a second language speakers. However, due to Imperial County's current economic situation and high unemployment rate, almost all participants that enroll in the B-Green training will meet one or more of the criteria for special populations. Awarding this proposal will impact a community with tremendous needs and will make a difference in the lives of the 25 participants who will complete Project B-GREEN.

Kern/Inyo/Mono Consortium

2001 28th Street
Bakersfield, CA 93301

Verna Lewis
(661) 336-6849

Award Amount: \$319,655

Summary: The targeted region of Kern, Inyo, and Mono (KIM) Counties was selected in developing the 2a Green Building industry sector strategy because it is a designated Local Workforce Investment Area (LWIA), and 2) it is a region lacking in workforce services that target energy efficiency and renewable energy industries. Employers' Training Resource (ETR) administers the Workforce Investment Act (WIA) services for Kern, Inyo, and Mono Counties. Primary partners for the proposed program are the Kern Community College District, Sheet Metal Workers International Association Local 105, Bakersfield.

Kern County lies at the southern end of the San Joaquin Valley with the Sierra Nevada mountains to the east where neighboring Inyo and Mono Counties are located. An estimated 990,360 people live in the KIM LWIA, which covers 21,388 square miles. The region, particularly Kern County, is characterized by poverty, high double-digit unemployment and low educational attainment rates compared to statewide data.

The proposed project will target adult residents of the three county area who are 18 years and older; unemployed or underemployed; and have little or no experience in the construction industry. We will focus our recruitment efforts on individuals who are interested in entering registered apprenticeship programs or working in green collar jobs. Thirty percent of project participants will be hard-to-serve.

The targeted industries include those that employ occupations that use transferrable skills found in plumbing, sheet metal work, and electrical systems. Green construction, solar panel installation, and wind energy are the industries our proposal will focus on.

Our proposed Green Building Pre-Apprenticeship program will serve 120 individuals during the grant period. Services provided will include skills assessment, basic skills training, as needed, and vocational ESL, as needed. Soft skills and work readiness training, and job search assistance will be incorporated into the program. On-the-job training and work experience components will also be included.

Upon completion of the training program, the participant will receive a certificate endorsed by the Green Regional Employer Council, indicating completion of the Green Building Pre-Apprenticeship course. Program completers will be qualified to apply for apprenticeships through the Kern County Electrical Joint Apprenticeship & Training Committee, the Kern, Inyo & Mono Counties Plumbing, Pipefitter & Refrigeration/Air Conditioning Mechanic Joint Apprenticeship & Training Committee, and the Kern & Northern Los Angeles Counties Air Conditioning & Sheet Metal Workers Joint Apprenticeship & Training Committee.

Long Beach Community College District

4901 E. Carson Street
Long Beach, CA 90808

Gail Schwandner
(562) 938-3023

Award Amount: \$976,060

Summary: According to the U.S. Green Building Council, buildings in the United States account for 36% of total energy use and 30% of greenhouse gas emissions. Given the rising cost of pollution-related health hazards and given current water and energy shortages, conservation and efficiency have become a vital part of the emerging green sector. While the City of Long Beach has been hit disproportionately hard by the economic downturn with an unemployment rate of 13.7% last July 2009, greening of the city economy holds the promise of fostering a robust and vibrant economy that simultaneously remedy the water and energy shortages and provide the local workforce with higher-wages, good benefits, and a more rewarding occupation.

In Long Beach, buildings and electricity accounts for 59.8% of the City's carbon emission due to the fact that 70% of all buildings in the region are over 30 years old. Although the City is in dire need of retrofitting ageing and inefficient buildings, deep building retrofits can cut energy use by 20 to 40 percent, and they can pay for themselves from the energy they save. The City of Long Beach's 2010 Citywide Strategic Plan identifies "Becoming a Sustainable City" as a primary strategic goal. In view of that, this proposal aim to capture the benefits of water/energy efficiency in our "built environment" to retrofit our existing stock of residential and commercial buildings. Based on the region's current need, the targeted industries through this program are: (1) Deep Building Retrofit, and (2) Retro-Commissioning of Existing Buildings.

Partnering with the City of Long Beach, the Port of Long Beach, Pacific Gateway Workforce Investment Board, Southern California Edison, Siemens USA and local small businesses has facilitated Long Beach City College's deep understanding of the region's water/energy efficiency industry dynamics as well as the employers' specific workforce needs. This Water/Energy Efficiency Training Partnership strategy will provide a comprehensive pre-apprenticeship training to 100 new workforce entrants, unemployed or underemployed workers with little or no construction experience to prepare them for work with a solid grounding in the retrofit, energy and water efficiency fields. The targeted population segments include the (1) low-skilled, unemployed, and recently dislocated workers with transferable skills, (2) recently returned veteran's population, and (3) underrepresented female population.

Integrated with basic and "soft" skills training, the Program infuses environmental literacy training into eight the following modules: (1) Environmental Training, (2) Introduction to Green Building, (3) Energy Fundamentals, (4) Energy Efficiency & Retrofits, (5) Water Efficiency & Retrofits, (6) Solar Hot Water Installation & Design Principles, (7) Solar Electric Installation & Design Principles, and (8) Green Landscaping Design. The proposed training leads to four occupations as (1) Retrofitting Specialists, (2) Resource Conservation Specialists, (3) Energy Regulations Specialists, and (4) Green Landscaping Designers.

These entry-level occupations were chosen because they provide a foundation for career pathways into higher-skill specializations within the industry by obtaining industry-recognized certifications, enroll in industry-recognized apprenticeship programs, and/or start their own business. Participants are offered an opportunity to build strong career ladders into jobs with family-sustaining wages for currently low-income and underemployed workers, thus bolstering the region's economic welfare and social stability as well as addressing the emerging workforce need of employers.

Los Angeles City
1200 W. 7th Street, 6th Floor
Los Angeles, CA 90017

Robert Sainz
(213) 744-7396

Award Amount: \$1,000,000

Summary: The City of Los Angeles Workforce Investment Board proposes to partner with the Los Angeles Community Development Department, the Los Angeles Community College District and a myriad of other partners to develop the Los Angeles Green Building Retrofit Pre-Apprenticeship Academy. The academy will focus its Green Building Retrofit Pre-Apprenticeship training efforts (Green Retrofit) on the Greater Los Angeles area, placing an emphasis on retrofitting both private and public buildings within the City and at Los Angeles Community College District (LACCD) facilities. The focus on the Greater Los Angeles region stems, in part, on the City's legislative initiatives (the Private Sector Green Building Ordinance and the public sector Green Retrofit and Workforce Ordinance) and, in part, on \$50 billion voter approved investment in constructing and retrofitting LACCD facilities.

The City proposes to provide training services to 200 low-income individuals with an emphasis on vulnerable populations, including Disconnected Youth, Ex-offenders, Homeless, and Persons with Disabilities. Los Angeles demographic data indicates that these groups are in the most need of skills, apprenticeship and other training.

Modeled after the Los Angeles Construction Talent Transfer Pre-Apprenticeship program, the Green Building Pre-Apprentice Academy will offer the target population career focused short-term training programs that integrate industry awareness and skill attainment, academic and basic skills remediation and supportive wrap-around services. The Academy's goal is to train low-income participants for entry-level positions, including those as registered apprentices.

The City's Green Building ordinances Private Sector Green Building Ordinance, Green Retrofit and Workforce Ordinance etc.) and the States' legislative initiatives (e.g. AB 32, SB 1 etc.), in combination will create employment opportunities in the Green Building and Construction Retrofit field and necessitate the development of a pipeline for hard-to-serve Los Angeles residents that qualify for those jobs.

Los Angeles Trade Technical College
400 West Washington Boulevard
Los Angeles, CA 90015

Leticia Barajas
(213) 763-7071

Award Amount: \$1,000,000

Summary: The Los Angeles Trade Technical College Clean Energy Pre-Apprenticeship (CEPA) Program will serve the Greater Los Angeles Region. A collaborative partnership which includes Los Angeles Trade Technical College (the project lead), Los Angeles Community College District, the LA County Workforce Investment Board, the Los Angeles City Workforce Investment Board and a myriad of public and private employers will administer the program. CEPA will provide training for program participants that leads toward a solid foundation in renewable energy principles, utility technology, including distribution fundamentals and installation of utility-scale solar energy. The program shall include classroom and hands-on training that provides new workforce entrants, and unemployed or underemployed workers with knowledge and job skills in a variety of broad-based renewable energy fields, with a specific focus on solar/pv installation and electrical distribution.

LATTC will serve 150 people through the CEPA training program. The target population for CEPA will be low income adults, who are currently unemployed or underemployed who live in the Greater Los Angeles area. Individuals for this program do not need any prior experience in the energy or construction fields. Since the program will address some basics skills deficits, they will not necessarily need a GED or high school diploma. Special efforts will be made to outreach to groups who are at-risk and have the most challenges in finding employment including emancipated foster youth (ages 18 – 21), previously incarcerated individuals, returning veterans, and other at risk populations. An innovative aspect of the program is the active effort we will put forth to recruit women into the energy and electrical distribution fields.

LATTC, LACCD, and The Los Angeles County and Los Angeles City WIB, through its WorkSource Centers and One Stop Centers, will recruit, screen and orient the trainees. Intake and orientation at the WorkSource/One-Stop Centers will include an initial assessment of skill levels, aptitudes, abilities and support services needs. Clients in need of wrap around services will be referred to community based organizations affiliated with LATTC and the WIBs to address their needs.

The LATTC CEPA will focus on a broad spectrum of clean energy principles and careers, as well as basic skills and work readiness skills that are need in the energy and utility fields. We have chosen to focus more in-depth training on the solar/pv and electrical distribution careers. All of the training was developed with input from public or investor owned utility companies, as well as other employers. All trainees who enroll in CEPA will complete modules in Clean Energy Career Exploration, Work Readiness, Contextualized Basic Skills, and Sustainability and Clean Energy Concepts. They will then choose one of two career pathways for more intensive training - Solar/PV installation and Maintenance or Electrical Distribution/Line worker Training. Cohorts of 35 to 40 individuals will begin every 12 to 14 weeks during the grant period. Training will consist of classroom, and hands-on training in a lab/shop environment. The intent of CEPA is to provide short-term industry-recognized training for entry-level energy professionals and is designed as a “portal” for individuals in low income areas to enter apprenticeship programs or employment.

Northern Rural Training and Employment Consortium

525 Wall Street
Chico, CA 95928

Charles Brown
(530) 892-9600

Award Amount: \$1,000,000

Summary: Targeted Region: The eleven (11) rural counties in Northern California, which include Butte, Del Norte, Lassen, Modoc, Nevada, Plumas, Shasta, Sierra, Siskiyou, Tehama and Trinity served by NoRTEC-WIB and North Far North Regional Consortium (NFNRC) of CA Community Colleges.

Targeted Industries: Energy Efficiency - Construction, Certified Green Building Professional, Home Energy Rater, Solar PV, Solar Thermal, Environmental Control Technology.

Primary Partners: NoRTEC-WIB, 11 County One-Stops, NFNRC (5 Community Colleges), Green Employer Council, Utilities, Builders Exchange, Local 39, ROP, Community Action Agency

Target Population: Dislocated construction workers, unemployed, underemployed, new entrants and special needs groups, such as, veterans, language or education barriers, criminal convictions, et al.

Number of Participants: 117 total participants served, 70% attain certificate/degree, 74% placed, and 83% retained in employment.

Proposed training activities and description of the career pathways:

The foundation of the training provided will be the Core Curriculum: Introductory Craft Skills, from the National Center for Construction Education and Research. Core Construction Curriculum components include: Basic Safety, Construction Math, Hand Tools, Power Tools, Construction Drawings, Basic Rigging, Basic Communication Skills, Basic Employability Skills, and Materials Handling. This course will also be an articulated Tech Prep/ROP course. The entire Clean Energy Workforce Training Program at Butte College will be part of an articulated, sequenced pathway from the ROP/High School to Butte College to California State University, Chico. Other colleges in the region will be able to adopt these courses for articulation, programs of study and career pathways. Courses for required certifications (see Green Bldg, Pre-Apprenticeship Chart, page 10):

1. Core Construction Skills
2. Environmental Training
3. Introduction to Green Building
4. Energy Fundamentals
5. Retrofits & Energy Efficiency
6. Water Efficient Building & Retrofits
7. Solar Hot Water Installation & Design Principles
8. Solar Electricity Installation & Design Principles

Additional training, Introductory Craft Skills, soft skills application.

On-line Green Building Apprenticeship and field lab work provided for remote rural areas.

Occupations: Four occupations, identified as the most difficult to find application have been identified with wages ranging from \$11 to \$34/hour.

Bldg Retrofit Spec, HVAC Mechanics/Tech/Installers,

Energy Auditors/Home Energy Raters, and Bldg Operators/Building Engineers

Peralta Community College District

333 East 8th Street
Oakland, CA 94606

Peter Crabtree
(510) 464-3218

Award Amount: \$1,000,000

Summary: Laney College is applying for the Clean Energy Workforce Training grant in collaboration with the Oakland WIB, Cypress Mandela Training Center, the Regional Technical Training Center, the Spanish Speaking Citizen’s Foundation, Civicorps Schools, Allen Temple Job Training, urban university, Greywater Action, Grid Alternatives and Growth Sector. This team of training and support organizations will offer a robust green building pre-apprenticeship program as an expansion of the existing Oakland Green Jobs Corp. The program will serve the East Bay region, including Alameda and Contra Costa Counties.

This expanded Oakland Green Jobs Corp will train 120 new students in energy efficiency, water conservation and renewable energy. Half of the students will be trained at Laney College and half will be trained at Cypress Mandela Training Center with Laney curriculum and instructors. The students at Laney will take a 6 month, 18.5 credit course in environmental literacy, energy auditing, energy efficiency retrofitting, weatherization and green building. The students at Cypress will take a 16 week pre-apprenticeship course as well as environmental literacy and construction rehabilitation classes.

A detailed review of recent job forecast data and information from the members of our Green Employers Council and local government partners indicates that the most pressing workforce need in the East Bay will be energy efficiency retrofitting. 14,000 new jobs are expected in the next three years. Students will receive in-depth training in energy auditing and retrofitting as well as the general construction rehabilitation skills that accompany energy efficiency upgrades. In addition to significant training in energy efficiency, students will receive basic training in water conservation techniques, such as greywater systems, and renewable energy, including solar. With this comprehensive training program graduates will be eligible for entry level positions in renewables, water and energy efficiency. Job opportunities include:

- * Energy Auditor - \$42,000 starting salary
- * Energy Efficiency Retrofitting - \$50,000 starting
- * Weatherization Specialist - \$15-18/hour starting
- * Solar Installer - \$32,000 starting

The Oakland Green Jobs Corp serves primarily low-income students of color from all over the East Bay. Our target population includes veterans, low-income, public assistance, unemployed, displaced workers, women, at risk youth and students speaking English as a second language. We will recruit these students through community partnerships with Cypress Mandela, the RTTC, the Spanish Speaking Citizen's Council, Civicorps and Allen Temple Job Training. Our goal is to support motivated students in moving from shrinking industries to the growing green sector and to assist those with barriers to employment in preparing for and thriving in a green career.

Richmond City
330 25th Street
Richmond, CA 94804

Sal Vaca
(510) 307-8006

Award Amount: \$1,000,000

Summary: The Richmond BUILD Green Careers Academy (RBGCA) expands upon a highly successful model that is already in place to prepare a skilled and trained workforce in the green building industry, with a focus on emphasis on energy and water efficiency and solar energy installation training. The project brings together employer, workforce investment board, community college, labor, energy efficiency/solar installation training and environmental literacy partners to identify the most effective ways to deliver the training needed to meet worker demand in the energy/water efficiency and solar energy industries and build capacity to meet future need. The RBGCA is made up of a broad range of partners, some of which include: the Richmond and Alameda County WIBs, Contra Costa Community College, Solar Richmond, Rising Sun Energy Center, Ma'at Environmental Academy, Literacy for Every Adult Program, UC Berkeley Lawrence Hall of Science, Green Energy Hispanic Education, Rubicon Programs, the City of Berkeley, Carpenter's Local 152, the Chevron Corporation, Sun Light and Power, and Solar City.

The RBGCA will serve a total of 190 participants, including 170 from the city of Richmond and 20 from the city of Berkeley. Residents of the city of Richmond face tremendous employment challenges during the current recession, with unemployment rate for the City of 17.6% in July of 2009, more that 80 percent above the national average for the same period. The project will enroll a minimum of 25% of participants from special needs populations, including individuals who lack a GED or high school diploma; those with limited English skills; at risk youth, including emancipated foster care youth; those who reside in transitional housing or who are homeless; individuals with prior criminal convictions or adjudication; veterans; and those who are low-income or on public assistance. Placement of participants in employment will focus on the counties of Contra Costa and Alameda, where the majority of RBGCA employer partners are located.

The project curriculum will make use of the nationally recognized Richmond BUILD training model, which provides participants with pre-apprenticeship construction skills training that incorporates training in energy efficiency, environmental literacy, solar technology and solar installation as a component of a larger construction training program. Participants will also receive training in soft skills, and basic skills instruction in math and reading will be available for those who require it. The program has already achieved success in gaining employment for participants in the energy efficiency and solar industries once their training is complete.

Graduates of the RBGCA will be prepared for entry into a number of different green building and clean energy occupations, such as the following: Solar Thermal Installer or Technician, Solar Photovoltaic Installer or Technician, Plumber Apprentice, Carpenter Apprentice, Building Performance or Retrofitting Specialist, Energy Auditor or Home Energy Rater, Energy Conservation or Energy Efficiency Manager and HVAC Technician. The project will work closely with the Green Employer Council, other local industry partners and local union apprenticeship programs, to ensure access to employment in the green building and clean energy industries for all program graduates.

Sacramento Employment and Training Agency

925 Del Paso Boulevard
Sacramento, CA 95815

Robin Purdy
(916) 263-3860

Award Amount: \$968,682

Summary: The Sacramento Region Green Building Pre-Apprenticeship Training Partnership will provide services targeting Sacramento, Yolo, El Dorado, and Placer counties. The partnership will focus on providing pre-apprenticeship training programs to prepare a trained workforce for the energy efficiency, infrastructure and commercial green building construction, and the building retrofit sectors. Primary partners for this initiative include: Sacramento Employment and Training Agency/Sacramento Works, Inc., Golden Sierra Job Training Agency, Los Rios Community College District, American River College, Cosumnes River College, Sacramento Municipal Utility District, Community Resource Project, Sacramento Area Electrical Training Center (NECA-IBEW Local 340), Buetler Corporation, and Valley Vision-Green Capital Alliance.

The Partnership will serve a total of 230 participants from the target population of adults 18 years or older, unemployed, underemployed, and new workforce entrants with a focus on special populations including veterans, individuals with household incomes below 50 percent of the area median income and those recipients of public assistance. The Partnership is proposing four separate programs to prepare participants with little or no prior construction experience for registered apprenticeship programs and jobs in the building retrofit field. Green Jobs/Energy Career Exploration Workshops, an overview of the careers and opportunities available to participants interested in training in the Green Building Industry, will be offered to create a pathway to Pre-Apprenticeship Training programs at American River College and Cosumnes River College. American River College Green Building Pre-Apprenticeship Training will prepare students for employment in commercial, industrial, and infrastructure apprenticeships in the Green Building industry. Cosumnes River College Green Building Pre-Apprenticeship Training will provide a Construction Pre-Apprenticeship Certificate program for individuals with no prior construction experience to be trained as Weatherization Technicians and Home Energy Auditors in the residential Green Building industry. Sacramento Area Electrical Training Center (NECA-IBEW Local 340) Pre-Apprenticeship Construction Training (PACT), a short-term, intensive pre-apprenticeship program will be offered in the evenings to provide an opportunity for unemployed workers to explore careers as electricians, plumbers, sheet metal workers, and laborers in green construction. The Green Building Pre-Apprenticeship Training program will be a partner with the Sacramento Municipal Utility District's (SMUD) Energy and Technology Center (E&TC) to provide short-term training classes and certifications that will lead to a Certified Green Building Professional (CGBP) training certificate.

The energy efficiency sector has great potential to be a positive economic driver in the Greater Sacramento Region at a time when the economy is in desperate need of job creation. Investments in energy efficiency programs will create jobs for thousands of people performing energy audits, retrofitting homes and buildings, installing advanced HVAC systems, and managing energy resources. Energy efficiency jobs pay well and provide opportunities for advancement, increasing skills and high wages. Most

energy efficiency jobs are middle-skill jobs requiring more education than high school, but less than a four-year degree—and are well within reach for lower-skilled and low-income workers, as long as effective training programs and appropriate supports are accessible. The Sacramento Region Green Building Pre-Apprenticeship Training Partnership will ensure that the necessary pre-apprenticeship programs are available to job seekers in the region to prepare them for this emerging industry sector.

San Bernardino Community College District

114 South Del Rosa Drive
San Bernardino, CA 92408

Kevin Fleming
(909) 382-4037

Award Amount: \$869,651

Summary: In San Bernardino County, 25% of residents live below the poverty line, the unemployment rate is 13.9%, the construction industry has declined 18.6%, only 15.9% of the population has a Bachelor's degree or higher, foreclosures are up 397.8%, and over 136,198 old homes in the county require weatherization and retrofit services. Fortunately, the demand for a green workforce is high with over 1,330 identified Inland Empire firms currently, or potentially, employing energy efficiency workers locally.

A strong network of partners is collaborating in this proposal focusing on the green building industry. San Bernardino County, the county Regional Occupational Program, and Uncommon Good will provide outreach, recruitment, and assessment. Chaffey College and San Bernardino Community College District will provide curriculum and training. The Inland Empire chapter of the United States Green Building Council, representing 236 local companies in the green building and energy efficiency industry, will provide training, internships, apprenticeships, and employment opportunities.

The target population will consist of WIA eligible clients including CalWORKs, re-entry, unemployed, underemployed, low income, female, and older youth (18 years and older) whom will mirror the demographics of the local community. Thirty percent of participants will be from special populations including the impoverished (household incomes below the median), chronically unemployed, underrepresented, and residents without a GED or high school diploma.

This project will recruit, train, and place 200 residents into green building apprenticeships or employment, by providing 400 hours of customized training in environmental literacy, green building, energy fundamentals, retrofits and energy efficiency, water efficiency, solar installation and design, basic skills, and workplace readiness.

This training program will prepare San Bernardino County residents for four career pathways/occupations: 1) Building Performance Retrofitting Specialists, 2) Energy Auditors or Home Energy Raters, 3) Resource Conservation or Energy Efficiency Managers, and 4) Solar PV/Thermal Installers. Center of Excellence research indicates these key occupations have a 3-year projected growth totaling over 1,470 additional jobs within the region.

San Diego Workforce Partnership

3910 University Avenue, Suite 400
San Diego, CA 92105

Mark Nanzer
(619) 228-2956

Award Amount: \$700,000

Summary: The San Diego Green Building Apprenticeship Readiness Partnership (Green Building Partnership) will prepare individuals for jobs in the green building and energy efficiency industry sector in San Diego County. San Diego County is a relatively self-contained labor market, as it is bordered by a military base to the north, the Pacific Ocean to the west, Mexico to the south, and mountains and desert to the east. San Diego has an estimated 1,120 firms employing an estimated 11,627 individuals in the energy efficiency industry. Because of the San Diego region's relative insularity, and the presence here of a burgeoning "green industry, the county is a perfect location to create a green building pre-apprenticeship program.

The Green Building Partnership will prepare individuals for jobs in five occupations: HVAC mechanics, technicians, or installers; building performance or retrofitting specialists; building controls systems technicians; energy auditors or home energy raters; and solar photovoltaic (PV) installers. Companies employing individuals in all of these occupations already are experiencing difficulty finding qualified workers. On top of this, it is estimated that there will be a need for an additional 1,224 individuals over the next three years to meet the demand for workers in the first four occupations, and an additional 287 in the next one year to meet the demand for solar PV installers.

The lead project partners are the San Diego Workforce Partnership, responsible for project, grant, fiscal, and performance management, and the San Diego and Imperial Counties Regional Community College Consortium, responsible for curriculum development and delivery. The Associated General Contractors of San Diego and Riverside Counties will help develop the curriculum and provide apprenticeship and employment opportunities, and other unions will provide apprenticeship and employment opportunities. Employers will serve on a Green Employer Council, which will provide input on the curriculum and provide internship and employment opportunities. Community partners will provide recruitment, case management, and support services.

The project will target veterans, out-of-school youth, and un- and under-employed adults. Classes and hands-on experience will be provided in basic construction principles, environmental literacy, introduction to green building, energy fundamentals, retrofits and energy efficiency, water efficient building and retrofits, solar hot water installation and design principles, and solar electricity installation and design principles. In addition, to these classes, there will be an employer-developed "Work Ready" component that includes instruction in employer expectations; pre-employment requirements; and work maturity, punctuality, attitude, and retention skills; along with needed basic skills.

Students who demonstrate additional deficiencies in work readiness or basic skills will have access to remediation and additional preparation. Participants will be provided with necessary support services, and upon completion of the program, will be placed in further education, apprenticeship, or employment, as appropriate.

The project will serve 160 individuals, of whom 80% will complete training, 70% will attain a recognized certificate or degree, and 73% will be placed in employment. Of those employed, 81 % will retain employment for at least six months.

San Francisco Department of Economic and Workforce Development

50 Van Ness Avenue
San Francisco, CA 94102

Guillermo Rodriguez
(415) 581-2311

Award Amount: \$998,550

Summary: The Office of Economic and Workforce Development (OEWD) and its primary partners, City College of San Francisco and Synergy Companies, will enroll and train 150 WIA eligible men and women in the Green Building Pre-Apprenticeship Training Partnerships Program. The program's population will consist of a diverse mix of San Francisco residents, 100% of whom will be drawn from Clean Energy Workforce Training Program special populations. At least 25% of the participants will be women and the group will reflect San Francisco's ethnic diversity. OEWD will operate 3, 18 week (630 hour) training cycles with 50 participants in each cycle over the course of 18 months. The program is built on OEWD's successful CityBuild Academy pre-apprenticeship program. For each cycle, OEWD, City College of San Francisco, the No. Calif. Carpenters Regional Council and the No. Calif. Laborers Joint Apprentice Committee will partner to deliver a combination of classroom and hands on training in basic construction skills, general and job site safety training, introductory labor studies, math, workforce entry skills, and introductory electrical, plumbing and HVAC skills. The training will also include a Green Building phase consisting of environmental literacy, introduction to green building, energy fundamentals, retrofits and energy efficiency, water efficient buildings and retrofit, solar hot water installation and design principles, and solar electrical installation and design principles. Finally, all participants will complete a certified 40-hour Health and Safety Training for Hazardous Waste course taught by a local training provider.

The OEVD program targets San Francisco County specifically and the San Francisco Bay Area region generally because the area contains a critical mix of local government, business, education, and community leadership in policy development, programmatic initiatives, and educational offerings that have stimulated the demand for green business approaches. The region is home to a large number of green businesses and the local energy efficiency (EE) industry sector is projected to grow over the next several years. Moreover, local ordinances, investment in infrastructure projects and ARRA funding for local building projects have combined to create a market and demand for construction workers trained in green building practices. The OEWD program targets entry level jobs in two growth EE subsectors --energy retrofitting of existing homes and retro-commissioning of existing buildings and facilities --because these positions pay sustainable wages, are accessible to individuals with limited education, and require short-term training for placement. Much of the entry- level work in these two categories is performed by apprentices. The positions with the greatest growth potential include: carpenter, laborer, sheet metal worker, and roofer apprentices as well as weatherization specialist/building performance specialist, energy auditor, home energy raters, solar thermal installer and solar PV installers.

OEWD will refer its program graduates to local apprenticeship programs and place them with local contractors. The training and certifications participants receive during their training will! make them quite marketable to contractors. Additionally, OEWD's

position as the compliance and implementation vehicle for San Francisco's First Source Hiring Program offers the program unique advantage in leveraging jobs from local building and energy efficiency contractors to assist them to meet their First Source hiring obligations. OEWD's program goal is to enroll 150 individuals, We expect 128 or 85% to complete the 18-week pre-apprenticeship training, and for 115 or 90% of these graduates to be placed in jobs. After 6 months, we expect 98 or 85% of those placed to still be working, The career pathways for these new workforce entrants will be varied. Some may simply incorporate their green building and EE skills into their chosen craft work as they complete all the requirements for journey status. For others the training will open up new career opportunities in marketing installing energy efficiency measures.

San Luis Obispo County
4111 Broad Street, Suite A
San Luis Obispo, CA 93401

Joyce Aldrich
(805) 602-2441

Award Amount: \$ 610,055

Summary: The targeted region for this proposal is San Luis Obispo and Santa Barbara Counties. Currently San Luis Obispo and Santa Barbara Counties do not have training in place for new workforce entrants, unemployed or underemployed workers with little or no construction experience to work in the construction industry, energy and water efficiency or renewable energy fields. With new energy retrofit and energy weatherization opportunities, there is a gap between skills of job seekers and needs of employers. This pilot project will provide training opportunities in San Luis Obispo and Santa Barbara Counties that bridges that education gap ensuring job seekers are trained in fields of Energy Weatherization, Retrofit, and Alternative Landscape encompassing Water Efficiency. This program will include classroom and hands-on training in basic construction practices with a solid grounding in green building and energy and water efficiency so individuals are prepared for work in the weatherization and building retrofit construction fields. This program, along with teaching skills to reduce our carbon footprint will be used toward the following objectives:

- *Education
- *Recruitment
- *Job Training
- *Job Placement

Primary partners in this proposal include Santa Barbara Workforce Investment Board, Cuesta Community College, Santa Barbara City College, California Conservation Corps, Community Action Partnership of San Luis Obispo, San Luis Obispo County Department of Planning and Building, Community Action Commission of Santa Barbara, International Brotherhood of Electrical Workers Local #639, Building and Trades Council of Santa Barbara, South Coast Regional Occupational Program, Tradart Foundation and Santa Barbara Contractor's Association.

The program is designed to support at least 200 adults, 18+ with a target population of 25% of the total served representing special population as defined by the SFP guidelines that includes participants who fall within the High School Drop-out and aged out foster youth categories, chronic unemployment, veterans and homeless or in supportive or transitional housing. The program will provide wraparound green job training and learning with a full scale curriculum in green building; energy fundamentals; retrofits and energy efficiency along with work experience in landscape management and construction management development through the Community Colleges; Local Labor and Building and Trades Councils that will provide vocational education to participants. Additionally the second component of the program consists of basic and intermediate hands-on skills training in energy efficient technologies, sustainable landscaping, energy auditing, green construction/deconstruction, and water management. The career pathways through partner employers include construction retrofit, energy/weatherization, and water management.

Solano Community College

4000 Suisun Valley Road
Fairfield, CA 94534

John Urrutia
(707) 864-7179

Award Amount: \$418,751

Summary: Targeted Region = Solano County: Square Miles - 909.4 Square Miles; Population - 426,729 (Jan 2009); 21 of the 58 Counties; Medium Age – 34.8; Average Annual Wage - \$43,383; Total Vehicle Registrations – 329,534. Travis AFB is located in Solano County, and 14,000 people are assigned to the Base – (Wing Performance Report – April 2008).

Targeted Industries – “Green” Construction and “Green” Development (Architectural; Engineering; Contracting; Pre-Design; Design; Construction; Property Management; Operations and Maintenance; Renewable Energy; Water Efficiency; Energy Auditing; and Weatherization)

Primary Partners – WIB of Solano County, County of Solano, Travis AFB, Cities of Fairfield, Vacaville, & Vallejo, Pacific Gas & Electric, Green Employer Council, & Private Business Partners

Target Population – The Primary Target Group is the Travis AFB Veterans and Reservists. There are approximately 3,250 Reservists stationed at Travis and an additional 522 Veterans processed through the Solano Community College Veteran Affairs office annually. Additionally, the current Unemployment Rate for Solano County is 11.5%, or 25,000 people. The total of these groups equals 28,772 possible students.

Number of Participants to be served – Our proposed program will include 3 simultaneous programs. We will host one program on our main campus along with classes located at Travis AFB, our Vacaville Center, and our Vallejo Center. Each of our core programs will be offered to and accommodate 40 students per semester, for a total of 120 students per semester. Our program within the 18-month Grant duration will provide 2 Semesters, for a total of 240 students. In addition, we will offer 5 Specialty Classes per semester for shorter-duration classes that enable larger groups of people (40 people per specialty class) to return to work. The specialty programs will be Weatherization and Energy Upgrades; Energy Auditing; Solar PV, Water Heating, and Space Heating; Rain Water Harvesting; and Entrepreneurial Training. The Specialty Classes will target the Unemployed.

Proposed Training Activities – Training activities will contain: Classroom and hands-on skill training in Environmental Literacy Training, Soft Skill Development, and Further Educational Pursuits. Specifically, the training will include an Introduction to Green Building (LEED GA Credentialing – particularly Sustainable Sites, Energy Conservation, Water Conservation, Resource Conservation, and Indoor Air Quality.) In addition, specific training will consist of Energy Fundamentals; Retrofits & Energy Efficiency; Water Efficient Buildings and Retrofits; Solar Hot Water and Space Heating; Solar – PV; along with the short duration

specialties that are listed above. Supportive classes addressing the basic skills of Math, Reading, and Writing will be available to those students requiring such training through the already existing Basic Skills Program at SCC.

Career Pathways or Occupations for the Graduates – The following are the Career Pathways or Occupations for the Graduates: Field Construction and Marketing skills in: Weatherization; Green Plumbing; HERS Rater; Energy Auditing; PV and Wind Energy; Solar Water and Space Heating; Rain Water Harvesting and Gray Water Reuse; Geo Thermal; Building Operations and Maintenance; LEED GA project participation; Sustainable Project Consulting; and further Education within Sustainable Development including Architectural and Engineering pursuits.

South Bay Workforce Investment Board

11539 Hawthorne, Suite 500
Hawthorne, CA 90250

Jan Vogel
(310) 970-7700

Award Amount: \$529,858

Summary: The Gateways to Green Building Pre-Apprenticeship Program (GGB Program) is a collaborative residential green building apprenticeship preparation program designed to prepare new workforce entrants, the unemployed and underemployed workers for candidacy and entrance into registered apprenticeship programs and/or employment in green building occupations and careers. Our program goals are to: 1) develop entry-level and specialty skills in residential green building for 70 under-employed, unemployed and new workforce entrants in the South Bay Local Workforce Investment Area (SBLWIA) to increase their employability and prepare them for careers in the green building field; 2) prepare participants for registered apprenticeship program candidacy, entrance, and successful participation, and/or other employment in a residential green building occupation; and 3) increase the residential green building workforce of the SBLWIA by developing skills recognized by certifying bodies through the use of classroom and hands-on instruction, community service activities, supportive services, and other state, federal, and local financial resources.

With the South Bay WIB serving as administrative entity, the program will be operated by the Century Center for Economic Opportunity/YouthBuild in Gardena in cooperation with El Camino College and green building training entities including the U.S. Green Building Council Los Angeles Chapter, Build it Green, the California Building Performance Contractor's Association, Richard Heath and Associates, and the Association of Energy Engineers. The 18-month program will cover the following content areas:

- *Environmental Literacy
- *Introduction to Green Building
- *Energy Fundamentals
- *Sustainable Development
- *Retrofits and Energy Efficiency
- *Water Efficient Building and Retrofits
- *Solar Hot Water Installation and Design Principles
- *Solar Electricity Installation and Design Principles
- *Workforce Entry: Math, Reading and Writing, Map and Plan Reading, Verbal Communication, Workforce Skills (including soft skills)
- *Vocational English as a Second Language

In addition to the organizations indicated above, GGB partners include: the IBEW/NECA Joint Apprenticeship Training Committee-Electrical Training Institute, Ironworkers Local 416, GRID Alternatives, the Environmental Services Center of the South Bay Cities Council of Governments, and the South Bay One-Stop Business and Career Centers in Inglewood, Gardena, Carson, and Redondo Beach. Green Employer Council members include: ASF Millworks & Design Inc., Building Doctors, Southern California Edison, DuctTesters, Inc., Healing Spaces by Design, Imani Energy, Inc., The Green Hive, Jasana, Quilite, Solartech Power, Inc., Salas O'Brien, and Pulte Homes.

Imperial County

2695 South Fourth Street, Building D
El Centro, CA 92243

Sam Couchman
(760) 337-5000

Award Amount: \$500,000

Summary: At the southeastern tip of California - bordering Mexico to the South, Arizona to the east, and San Diego to the West - is the Imperial Valley. The Imperial Valley/Imperial County encompasses nine small cities totaling an overall population of 172,000. Historically an agricultural area with high unemployment (30.2% - July, 2009 - EDD LMI info.), low skill jobs, and a predominantly Hispanic population (75%), the Imperial Valley is nonetheless in the process of turning itself into a focal point for bio-fuel production.

Thanks to its longer than average growing season, wide variety of crops, and nearby location to San Diego's bio-technology industry, the Imperial Valley is in a prime location to take advantage of the emerging bio-fuel industry. The bio-fuel industry sector is established and growing in the Imperial County; five of the bio-fuel companies making up this industry (SunEco Energy, Carbon Capture Corporation, Biolight, Pacificland International Development Company, and California Ethanol and Power) have partnered with Letters of Commitment to support this effort with their presence on the Green Employer Council. Of those five companies, three are related to algal bio-fuels - the subset of this industry which has identified the specific jobs being prepared for in this proposal. SunEco Energy has identified 52 jobs to be prepared for connected with their two planned 1000 acre-foot build-outs this coming year and Biolight has committed to hiring three positions in addition to the above 52 job openings.

The target population - as dictated by grant guidelines - is unemployed, underemployed and incumbent workers. Since the bio-fuel industry - while established and growing - has been primarily research oriented in the Imperial County before this year, it is not expected that incumbent workers will be a large part of the population. On the other hand, the unemployment statistics given above indicate there will be plenty of unemployed and under-employed individuals to work with.

To meet the 55 identified job openings associated with the algal bio-fuel industry, 75 participants will be trained in identified job areas. SunEco Energy identified eight job categories that they will be hiring for, three of which involve skills that will be part of the skills practiced through the Biolight internships to take place between the first and second stages of the proposed trainings. The eight identified job categories associated with jobs at SunEco Energy that will be available in the two scheduled build-outs between November 0f 2009 and January of 2011 are: Water Quality Specialists, Water Management, Livestock Feed Processors, Biology/Microscopy/ Lab, Computer Instrument Technicians, Heavy Electrical Technicians, Control Room Operators, Control Room Supervisors. Planned training associated with these positions includes classroom (both at IVROP- the training agency partnering in this proposal - and at the primary business partner facilities), and On-the-Job Training (OJT). Classroom training for technical positions at SunEco which will use Emerson Control Systems equipment will be specific training (through ISA-Instrument Society of America) designed to prepare participants to the point where, after this and limited OJT at SunEco, they will be sent to vendor/Emerson training by the employer, SunEco Energy. Other courses contain different combinations of classroom time and OJT depending on the position being prepared for.

Long Beach City
3447 Atlantic Avenue
Long Beach, CA 90807

Bryan S. Rogers
(562) 570-3701

Award Amount: \$500,000

Summary: California's economic recovery, in part, will take place within the burgeoning Clean Technology/Green Economic Sector. This sector is bringing about new job opportunities and expanding the industry in multiple arenas. In the Southern California region one of the major areas experiencing growth is the green transportation heavy trucks and transit. The strict mandates of the South Coast Air Quality Management District's (SCAQMD) addressing Greenhouse Gas emissions and the Clean Air Action Plan adopted by the Ports of Long Beach and Los Angeles are driving major changes in the heavy trucks and transit vehicles that travel through this region. A well trained workforce must understand the differences and safety issues between the old diesel technology and the new LNG/CNG or gasoline-hybrid engine technology.

Through this stacked training approach participants will have multiple options and entry points for employment opportunities within the Green Vehicle Service industry. Initially, clients will be able to obtain employment by completing the required entry level courses; a comprehensive green vehicle quick service training and an industry mandated green vehicle safety course. Upon completion select clients will be introduced to paid internships at green transportation quick service and maintenance facilities. These entry-level courses are the foundational piece of this project in that they ensure that all clients are immediately employable and possess the relevant skill base for the industry. All program graduates then move into one of 3 green specialty tracks that provide for advancement and mobility within the clean transportation industry sector: Gaseous Fuels Training, Electric/Hybrid Vehicle Training, and Clean Diesel Training. These industry focus areas are high growth segments for the region and clients will be well equipped with the requisite skills to apply for positions within the clean transportation industry.

As a proposed tiered training program the ability for this project to support employment, advancement and economic self-sufficiency is significant. Through a stackable credentialing model the proposed project will target four distinct yet complimentary segments of the regional population. These population segments include the (1) low-skilled, unemployed, (2) recently dislocated workers with transferable skills, (3) the recently returned veteran's population, and (4) the incumbent worker segment of the population. The project aims to serve approximately 210 clients over the 18 month project period.

As key conduits for expending federal stimulus dollars to support clean energy job growth, the Workforce Investment Boards recognize a need to support recruitment and clean energy training and education programs for the clean energy industry. The Pacific Gateway Workforce Investment Network and Long Beach Community College District are partnering as sponsors of this proposal because they recognize that the clean energy economy operates at a regional scale—businesses and employees work across jurisdictional boundaries—and thus a complimentary approach strengthens the likelihood of success for both organizations and their service areas. Key employer partners include Long Beach and Orange County Transits and the Port of Long Beach.

Los Angeles County

3175 West Sixth Street, Room 300
Los Angeles, CA 90020

Josie Marquez
(213) 738-3175

Award Amount: \$500,000

Summary: The Los Angeles County Workforce Investment Board (WIB) and its regional partners will serve 150 incumbent and underemployed/unemployed workers throughout the Los Angeles target region. It will provide a series of short-term training events and wrap-around services towards the green-building career pathways - leveraging local, state and Federal resources. The primary partners will be the Los Angeles Community College District (LACCD) and its nine-college infrastructure, the City of Los Angeles Workforce Investment Board, local and regional employers (such as Energy Crews Company, IMANI Energy, Inc., Sunshine Solar Energy Inc., SolarCity, INTI Energy Solutions, CA Conservation Corp (Operations and Facilities Division), and Go Green Solar).

The target group will include incumbent workers and underemployed/unemployed workers that are interested in the focused industry. Although not required, this project will also serve special needs populations that include veterans, individuals lacking a GED, and applicants living below 50% the area medium income. All participants will be offered short-term training activities that include the following:

- Code Training
- Principles of Green Construction
- LEED Certification Preparation
- Green Plumbing Principles and Certification Workshop
- Principles of Weatherization and Envelope Sealing
- Home Energy Audits and Rating systems
- Building Performance Institute Certification Training for Envelope Professional, Building Analyst Professional and Building Performance Contractor
- Solar/PV Installation

The purpose of the project is to prepare participants for emerging careers in the green-building sector and enhance their career mobility towards emerging fields. It is supported by regional employers, the local LA City and County One-Stop Center system, and sector-based associations such as the Green-WEST Alliance. Upon successful completion of the project's array of services, participants can be poised for successful careers such as Green Plumbing Contractors, Green Construction Managers/LEED Certified, Building Analyst, HVAC Contractor, Solar PV Installer, Energy Efficiency Auditor / Energy Efficiency Installation, and Solar Thermal Installation.

Richmond City
330 25th Street
Richmond, CA 94804

Sal Vaca
(510) 307-8006

Award Amount: \$500,000

Summary: The ATLAS Advanced Transportation Initiative (ATLAS ATI) is a regional consortium of Workforce Investment Boards (WIBs); community colleges, community workforce providers, labor, and regional industry employers that will implement career path trainings in green diesel, hybrid technology, and water borne automotive painting systems for underserved populations of dislocated workers and recently detached veterans in the greater East San Francisco Bay Area Interstate 80 and 880 corridor. ATI will serve 125 dislocated individuals over 18 months from three specific groups of dislocated individuals currently unemployed or soon to be unemployed due to environmental policy, shifting strategies in the wars in Iraq and Afghanistan, or economic restructuring.

Independent Owner-Operator (IOO) Truckers: New CARB guidelines in December will force as many as 1500 drivers at the Port of Oakland to replace or retrofit their trucks to continue to service the Port. Of this amount, as many as 500 will be unable to comply and will lose ability to work as drivers.

Recently Detached Veterans: Hundreds of Iraq and Afghanistan veterans are returning to the Bay Area, the highest concentrations in the San Francisco East and South Bay Areas. Of these, the majority are young adult males between 21 and 28 years of age with limited work experience outside of the military and facing a variety of needs to reintegrate smoothly into civilian life.

Dislocated Workers: ATI will target dislocated workers from multiple sources with a special emphasis on workers displaced by the halting of the Chevron refinery expansion in the City of Richmond.

ATLAS ATI will implement clean transportation training pathways including Clean Diesel retrofit, Hybrid Automotive Technology, and Water Borne Automotive painting systems. These trainings will focus on short term intensive training leading to entry level positions making as much as \$20 an hour in dealerships, independent repair facilities, or large transportation providers with in house service capacity for their own fleets. The ATI training model integrates vocational ESL, basic skills instruction, and case management into training to provide full wraparound support for trainees, and it will create a Green Employer Council to facilitate placement after training and input from employers on the design and implementation of these new training elements. The training pathways targeted by ATI will all focus on both short term training and placement and continuing education after placement to help individuals achieve full certification as a Diesel Mechanic, Hybrid Automotive Technician (Toyota T-Tech Certification), or Advanced Automotive Paint technician.

The ATI partnership includes the Richmond WIB (Lead), Alameda County WIB, Oakland Private Industry Council, College of Alameda, Contra Costa College, Swords to Plowshares, and the Workforce Collaborative as primary service delivery partners. Additionally, the project builds upon existing partnerships between the College of Alameda with the Port of Oakland, Teamsters, Machinists Union, Joint Automotive Apprenticeship Council and nearly 30 transportation and repair companies based in the San Francisco East Bay. The structure of these partnerships will ensure the consortium direct access to the targeted populations and provide contextualized case management services by organizations with specific expertise serving transportation industries, veterans, and dislocated workers.

Sacramento Employment and Training Agency

925 Del Paso Boulevard
Sacramento, CA 95815

Robin Purdy
(916) 263-3860

Award Amount: \$500,000

Summary: The Alternative Vehicles and Fuel Workforce Training Program will serve the Sacramento Metropolitan Statistical Area (MSA) including Sacramento, Yolo, El Dorado, and Placer counties; and target the energy and transportation sectors. The Green Capital Alliance (GCA), with the active participation of business, government, economic development organizations, colleges, universities, and utility companies, will serve as the Green Employer Council.

Partners will include, in addition to the GCA, the Sacramento Employment and Training Agency (SETA) and Sacramento Works, Inc., the workforce arm of the regional WIB, which will provide recruitment, assessment, case management, and placement for students enrolled in entry level training; and, American River College (ARC), a Sacramento community college serving 40,000 students, which will provide industry and entry-level training. Employers will include the Operating Engineers Local 3 (OE3), a labor organization representing heavy equipment operators and mechanics; Pacific Gas & Electric Company (PG&E) and Sacramento Municipal Utility District (SMUD), major electric utility companies; and, Sacramento Area Rapid Transit (RT), providing regional bus and light rail service.

Industry Training Target Population and Outcomes:

- The target population for industry training will be technicians identified by their company/organization. In most cases technicians will be paid during training, and their wages will be used as match.
- OE3 – 12 technicians will retrofit off-road construction equipment to achieve particulate and green house reduction.
- PG&E – 48 technicians will service and maintain electric hybrid vehicles (EVs) to manufacturers' specifications. PG&E is transitioning their automotive fleet in 2010 to electric vehicles (EVs).
- RT – 12 technicians will maintain/repair Compressed Natural Gas (CNG) systems on diesel buses.
- SMUD – 24 technicians will service and maintain EVs, hybrids, and alternative fuel vehicles; and, retrofit trucks to achieve particulate and green house gas reduction.
- Training will prepare technicians to work with alternative vehicles, fuel systems, diagnostic tools, and technical software which they will utilize to train other technicians and advance within their occupation.

Entry Level Training Target Population and Outcomes:

- The target population will be unemployed and underemployed workers; with active recruitment of women. LMI data indicates an annual need for 182 auto mechanics and 66 bus and truck mechanics. Technicians with training in alternative vehicles and fuel should be very competitive for employment.
- Alternative Fuel and Vehicles Certificate: 25 students will complete courses in biodiesel; advanced electrical; hybrid technology; alternative fuels and vehicles; and advanced drive train.
- Clean Diesel Certificate: 25 students will complete courses in biodiesel; clean diesel systems; clean diesel rebuild, retrofit, or repower; clean engine repair; clean diesel retrofit; and clean diesel software.

This initiative will contribute to the economic recovery and stability of the region by teaching students, technicians, labor organizations, and employers how to retrofit diesel technology, and how to maintain and repair alternative vehicles. These activities will pump money into the economy through equipment and vehicle sales; improve regional health and economic competitiveness through the reduction of greenhouse gases and particulates; and establish Sacramento as a center for transportation and energy technology.

San Francisco Department of Economic and Workforce Development

50 Van Ness Avenue
San Francisco, CA 94102

Guillermo Rodriguez
(415) 581-2311

Award Amount: \$277,500

Summary: Targeted Region and Sector: The Bay Area EV Training Consortium has designated the San Francisco Bay Area as its targeted region; and the electric vehicle sector as its targeted industry. For the purposes of the Consortium's work, the regional EV industry sector is inclusive of: automobile dealerships that will be marketing EVs in the 2010 2012 timeframe; independent repair shops that service EVs; companies that convert conventional vehicles to electric drive operation; EV charge station manufacturers and the electrical contractor community that will install them; public and private fleet operators; local government transport, building, planning, and public works officials.

Primary Partners: Primary partners in the Consortium include Workforce Investment San Francisco (the lead applicant agency and the designated Workforce Investment Board for San Francisco City and County); the WIBs of Sonoma and Marin County, City College of San Francisco, the College of Marin, Santa Rosa Junior College (located in Sonoma County); the S.F. EV Association, and the Bay Area EV Corridor Project, which is a coalition of Bay Area regional public agencies, local governments, EV companies, and business organizations advancing a coordinated plan to make the Bay Area the "EV Capital of the United States." Primary Bay Area EV Corridor Project partners include the Joint Policy Committee of the four regional public agencies of the Bay Area (the Association of Bay Area Governments, the Metropolitan Transportation Commission, the Bay Area Air Quality Management District, and the Bay Conservation and Development Commission); the City and County of San Francisco; the City of San Jose; Coulomb Technologies; and many other employer and business organizations.

Target Population Served (60% incumbent workers; 40% unemployed or underemployed): The Bay Area EV Training Consortium target population includes: 1) individuals seeking employment in the auto technician field with a broad array of skills - including conventional and electric drivetrain components; 2) incumbent technicians seeking advancement through knowledge of EVs.

Proposed Training Activities: Consortium training activities will include training for at least 144 incumbents and job-seekers via: 1) Nine introductory and intermediate auto technician training courses with an emphasis on electric vehicle drivetrains (including hybrid-electric, plug-in hybrid electric, and pure battery-electric vehicles); 2) Training in electric vehicle conversions; and 3) Training in electric vehicle charge station network planning, installation, and maintenance. In addition, at least 100 EV infrastructure planners and installers will be trained in multi-disciplinary teams through a series of 24 "EV Charger Supply Chain Workshops" led by experienced EV industry professionals affiliated with the Bay Area EV Corridor Project. To ensure that technician program training participants fully understand the demands and expectations of the EV-related workplace, job shadow and work-based learning activities will be organized with leading employers, coordinated by the SF EV Association. We anticipate

that at least 73% of college auto tech trainees will be placed in unsubsidized employment. EV Charger Workshop participants will be incumbents not needing placement services.

Career Pathways: The career pathways that EV Training Consortium participants will be engaged in include automobile service technicians and managers; fleet managers; and I L. EVinfrastructure and charge network~J2Janners, technicians, and manager.

Regional Industry Clusters of Opportunity Awardees

Each of the successful applicants received \$200,000 of Recovery Act funding and those applicants that focus activities on Alternative and Renewable Fuel and Advanced Vehicle Technologies will receive AB 118 funding up to \$50,000.

The 10 entities receiving Regional Industry Clusters of Opportunity grants include:

Applicant Name	Region (Counties)	Recovery Act Amount	AB 118 Amount	Total Award
Fresno County Workforce Investment Board	Amador, Calaveras, Fresno, Kern, Kings, Inyo, Madera, Mariposa, Merced, Mono, San Joaquin, Stanislaus, Tuolumne	\$200,000	\$0	\$200,000
Humboldt County Workforce Investment Board	Del Norte, Humboldt, Mendocino, Siskiyou, Trinity	\$200,000	\$0	\$200,000
Northern Rural Training and Employment Consortium	Butte, Del Oro, Lassen, Modoc, Nevada, Plumas, Shasta, Sierra, Siskiyou, Tehama, Trinity	\$200,000	\$49,000	\$249,000
North Valley Job Training Consortium (NOVA)	Santa Clara, San Mateo	\$200,000	\$0	\$200,000
Pacific Gateway Workforce Investment Board	Los Angeles, Orange, Ventura	\$200,000	\$49,987	\$249,987
Sacramento Employment Training Agency	El Dorado, Sacramento, Sutter, Yolo, Yuba	\$200,000	\$0	\$200,000
San Bernardino County	Riverside, San Bernardino	\$200,000	\$49,000	\$249,000
San Diego Workforce Partnership	San Diego	\$200,000	\$0	\$200,000
Santa Barbara Workforce Investment Board	San Luis Obispo, Santa Barbara, Ventura	\$200,000	\$50,000	\$250,000
Workforce Investment Board of Contra Costa	Alameda, Contra Costa, Solano	\$200,000	\$0	\$200,000

LIST OF CALIFORNIA APPRENTICESHIP PROGRAMS - DIVISION OF APPRENTICESHIP STANDARDS (DAS)

INDUSTRY	NAME	NO. OF APPRENTICE
Asbestos Workers Committees	Northern California Heat & Frost Insulators And Allied Workers J.A.C. (Alameda)	145
Asbestos Workers Committees	Southern California Heat & Frost Insulators & Allied Workers J.A.C. (Los Angeles)	124
Automotive Committees	Alameda & Contra Costa Counties Automotive Repair Trades J.A.C. (Alameda)	52
Automotive Committees	Central Valley Automotive & Machinist J.A.C. (Fresno)	40
Automotive Committees	City Of San Jose Vehicle Equipment Repair Trades Apprenticeship Committee (Santa Clara)	3
Automotive Committees	Sacramento Automotive J.A.C. (Sacramento)	24
Automotive Committees	San Francisco, Marin, San Mateo & Northern Santa Clara Counties Automotive Repair Trades J.A.C. (Alameda)	33
Automotive Committees	San Joaquin Valley Automotive Trades J.A.C. (San Joaquin)	63
Automotive Committees	Santa Clara & San Benito Counties Machinist Joint Apprenticeship And Training Committee (Santa Clara)	3
Automotive Committees	Santa Clara County Automotive Repair Trades J.A. & E.A.C. (Santa Clara)	65
Automotive Committees	Sonoma County Automotive & Marin & Sonoma Counties Machinist J A C (Sonoma)	1
Barber & Cosmetology Committees	Cosmetica - Cosmetology And Barbering U.A.C. (Los Angeles)	103
Barber & Cosmetology Committees	Cosmetology Unilateral Apprenticeship Committee (Los Angeles)	336
Barber & Cosmetology Committees	East Bay & South Counties Barbering & Cosmetology U.A.C. (Alameda)	140
Barber & Cosmetology Committees	Greater East Bay Barber & Cosmetologist U.A.C. (Contra Costa)	220
Barber & Cosmetology Committees	Los Angeles County Barbers & Cosmetologist J.A.C. (Los Angeles)	104
Barber & Cosmetology Committees	Northern California Barber And Cosmetology Apprenticeship Committee (Sacramento)	663
Barber & Cosmetology Committees	Orange County Barber & Cosmetology J.A.C. (Orange)	89
Barber & Cosmetology Committees	San Bernardino & Riverside Barbers J.A.T.C. (Riverside)	70
Barber & Cosmetology Committees	San Diego Cosmetology Apprenticeship Committee (San Diego)	53
Boilermaker Committees	Boilermakers Western States Area J.A.C. (Contra Costa)	142
Bricklayer Committees	Bricklayers & Allied Crafts Local 3 J.A.T.& E.C. (Alameda)	108
Bricklayer Committees	Bricklayers & Allied Craftsman Local #4 California J.A.C. (Los Angeles)	114
Bricklayer Committees	Masonry Industry Training Association Of Southern California Bricklayers U.A.C. (Riverside)	4
Bricklayer Committees	San Diego & Imperial Counties Bricklayers & Stone Masons J.A.T.C. (San Diego)	5
Carpentry Committees	Alameda County Carpenters Training Committee (Alameda)	315
Carpentry Committees	Associated Builders & Contractors Golden Gate Chapter Carpentry U.A.C. (Alameda)	37
Carpentry Committees	Central Valley Carpenters Training Committee (Fresno)	147
Carpentry Committees	Contra Costa County Carpenters Training Committee (Alameda)	627
Carpentry Committees	Delta / Yosemite Carpenters Training Committee (Solano)	105
Carpentry Committees	Greater Bay Area Hardwood Floor Layers Training Committee (Santa Clara)	16
Carpentry Committees	Humboldt & Del Norte Counties Carpenters Training Committee (Solano)	8
Carpentry Committees	Innercity Community Unilateral Apprenticeship Committee (San Diego)	54
Carpentry Committees	Los Angeles County Cabinet And Store Fixture Jac (Los Angeles)	33
Carpentry Committees	Los Angeles County Carpenter Floor Workers J.A. & T.C. (Los Angeles)	65
Carpentry Committees	Marin County Carpenters Training Committee (Solano)	48
Carpentry Committees	Monterey County Carpenters Training Committee (Santa Clara)	40
Carpentry Committees	Napa And Solano Counties Carpenters Training Committee (Solano)	153
Carpentry Committees	North Valley Carpenters Training Committee (Solano)	201
Carpentry Committees	Northeastern Butte Carpenters Training Committee (Solano)	15
Carpentry Committees	Northern California Pile Drivers & Bridge Builders (Alameda)	209
Carpentry Committees	San Diego Associated General Contractors J.A.C. (San Diego)	379
Carpentry Committees	San Francisco Carpentry Training Committee (Alameda)	661

INDUSTRY	NAME	NO. OF APPRENTICE
Carpentry Committees	San Mateo County Carpentry Training Committee (Alameda)	152
Carpentry Committees	Santa Clara/San Benito Carpenters Training Committee (Santa Clara)	260
Carpentry Committees	Santa Cruz County Carpenters Training Committee (Santa Clara)	35
Carpentry Committees	Sonoma, Lake & Mendocino Counties Carpenters Training Committee (Solano)	81
Carpentry Committees	South Bay Mill & Cabinet Joint Apprenticeship & Training Committee (Santa Clara)	9
Carpentry Committees	Southern California Acoustical Installer J.A.T.C. (Los Angeles)	235
Carpentry Committees	Southern California Carpentry J.A.T.C. (Los Angeles)	4,884
Carpentry Committees	Southern California Carpentry J.A.T.C. (San Diego) (San Diego)	1
Carpentry Committees	Southern California Modular Furnishings Installer Joint Apprenticesip & Training Committee (Los Angeles)	52
Carpentry Committees	Southern California Pile Drivers J.A.T.C. (Los Angeles)	138
Carpentry Committees	Tahoe Area Carpenters Training Committee (Solano)	17
Carpet, Linoleum & Soft Tile Committees	Northern California Floor Covering J.A.T.C. (Alameda)	504
Carpet, Linoleum & Soft Tile Committees	San Diego Carpet, Linoleum & Floor Covering Industries J.A.C. (San Diego)	9
Carpet, Linoleum & Soft Tile Committees	Southern California Resilient Floor & Decorative Covering Crafts Jatc (Los Angeles)	209
Cement Masons Committees	Northern California Cement Masons J.A.T.C. (Alameda)	149
Cement Masons Committees	San Diego Associated General Contractors J.A.C. (San Diego)	115
Cement Masons Committees	San Diego County Cement Masons J.A.C. (San Diego)	69
Cement Masons Committees	Southern California Cement Masons J.A.C. (Los Angeles)	404
Civil Service Committees	Bureau Of Reclamation Central Valley (Sacramento)	8
Civil Service Committees	California Fire Fighter Joint Apprenticeship Committee (Sacramento)	6,136
Civil Service Committees	California State University & State Employee Trades Council Jatc (Los Angeles)	11
Civil Service Committees	Department Of Park & Recreations (Sacramento)	153
Civil Service Committees	Office Of Training & Personnel Development/Joint Apprenticeship & Training Committee (Sacramento)	8,568
Drywall / Lather Committees	46 Northern California Counties Drywall/Lathing Ja&Tc (Alameda)	854
Drywall / Lather Committees	Innercity Community Unilateral Apprenticeship Committee (San Diego)	33
Drywall / Lather Committees	San Diego Associated General Contractors J.A.C. (San Diego)	137
Drywall / Lather Committees	Southern California Drywall/Lather J.A.T.C. (Los Angeles)	3,455
Drywall Finishing (Taping) Committees	Central Valley Painters, Decorators And Paperhangers J.A.C. (Fresno)	6
Drywall Finishing (Taping) Committees	Painting & Decorating Joint Apprenticeship Training Committee Of The Bay Area, Inc. (Alameda)	122
Drywall Finishing (Taping) Committees	Southern California Drywall Finishers Joint Apprenticeship Training Committee (Los Angeles)	273
Electrical & Electronic Committees	Alameda County J.A.T.C. For The Electrical Inside Wireman Trade (Alameda)	157
Electrical & Electronic Committees	Associated Builders & Contractors Golden Gate Chapter Electrical U.A.C. (Alameda)	140
Electrical & Electronic Committees	Associated Builders & Contractors Of San Diego, Inc. Electrical U.A.C. (San Diego)	181
Electrical & Electronic Committees	Associated Builders & Contractors Of San Diego, Inc., Electronic Systems Technician (Sound Tech.) (San Diego)	21
Electrical & Electronic Committees	Central Valley Electrical J.A.T.C. (Stanislaus)	45
Electrical & Electronic Committees	Communication Workers Of America/American Communication Contractors Association J.A.C. (Santa Clara)	12
Electrical & Electronic Committees	Contra Costa County Electrical J.A.C. (Contra Costa)	160
Electrical & Electronic Committees	Crater Lake Electrical J A T C (Unknown)	50
Electrical & Electronic Committees	Fresno, Madera, Kings & Tulare Counties Electrical Industries Jatc (Fresno)	104
Electrical & Electronic Committees	I.B.E.W. Local Union No. 40 Los Angeles County Chapter Neca J.A.C. (Los Angeles)	31
Electrical & Electronic Committees	Kern County Electrical Joint Apprenticeship & Training Committee (Kern)	147
Electrical & Electronic Committees	Los Angeles County Electrical J.A.& E.T.C. (Los Angeles)	934
Electrical & Electronic Committees	Los Angeles County Intercommunication & Sound J.A.C. (Los Angeles)	99
Electrical & Electronic Committees	Los Angeles/Ventura Chapter Of A.B.C. Inc. E.U.A.C. (Los Angeles)	213
Electrical & Electronic Committees	Motion Picture Studio Electrician (Journeyman Wireman) J.A.C. (Los Angeles)	18

INDUSTRY	NAME	NO. OF APPRENTICE
Electrical & Electronic Committees	Northern California Sound And Communication J.A.T.C. (Santa Clara)	197
Electrical & Electronic Committees	Orange County Electrical (Transportation) J.A.C. (Orange)	24
Electrical & Electronic Committees	Orange County Electrical J.A.C. (Orange)	297
Electrical & Electronic Committees	Orange County Sound Technician Joint Apprenticeship Committee (Orange)	46
Electrical & Electronic Committees	Redwood Empire Electrical J.A.T.C. (Sonoma)	141
Electrical & Electronic Committees	Reno Electricians Jatc For The Electrical Industry (Unknown)	90
Electrical & Electronic Committees	Riverside Area Electrical J. A. C. (San Bernardino)	138
Electrical & Electronic Committees	Riverside, San Bernardino, Mono & Inyo Counties Sound Technician J. A. C. (San Bernardino)	9
Electrical & Electronic Committees	Sacramento Area Electrical J.A.T.C. (Sacramento)	195
Electrical & Electronic Committees	San Bernardino, Mono And Inyo Counties Electrical J. A. C. (San Bernardino)	124
Electrical & Electronic Committees	San Diego County Sound Technicians J.A.C. (San Diego)	26
Electrical & Electronic Committees	San Diego Electrical J.A.T.C. (San Diego)	302
Electrical & Electronic Committees	San Francisco J.A.T.C. For The Electrical Industry - Inside Wireman (San Francisco)	307
Electrical & Electronic Committees	San Joaquin & Calaveras Counties Electrical J.A.T.C. (San Joaquin)	56
Electrical & Electronic Committees	San Luis Obispo Electrical Workers J.A.C. (San Luis Obispo)	30
Electrical & Electronic Committees	San Mateo County J.A.T.C. For The Electrical Construction Industry (San Mateo)	149
Electrical & Electronic Committees	Santa Barbara County Electrical J.A.C. (Santa Barbara)	49
Electrical & Electronic Committees	Santa Clara County Electrical Trades J.A.T.C. (Santa Clara)	305
Electrical & Electronic Committees	Shasta-Butte Electricians J.A.T.C. (Shasta)	13
Electrical & Electronic Committees	So. Calif. Chapter Of A. B. C., Inc. Electronic Systems Technician/Voice Data Video U. A. C. (Orange)	9
Electrical & Electronic Committees	Solano & Napa Counties Electricians J.A.T.C. (Napa)	111
Electrical & Electronic Committees	Southern California Chapter Of The Associated Builders And Contractors Inc. Electrical U.A.C. (Orange)	382
Electrical & Electronic Committees	Southern California Transportation Systems Electrical Jac (Los Angeles)	117
Electrical & Electronic Committees	Tri-County J.A.T.C. For The Electrical Industry (Monterey)	54
Electrical & Electronic Committees	Ventura County Electrical J.A.T.C. (Ventura)	73
Electrical & Electronic Committees	W.E.C.A. Electrical Apprenticeship And Training Committee (Sacramento)	12
Electrical & Electronic Committees	Wbfaa Uatc (Los Angeles)	93
Electrical & Electronic Committees	Western Electrical Contractors Assoc., Inc. Apprenticeship And Training Committee (Sacramento)	522
Electrical & Electronic Committees	Western Electrical Contractors Association & Training Committee (Sacramento)	40
Elevator Committees	Northern California Elevator Industry Joint Apprenticeship And Training Committee (San Francisco)	357
Elevator Committees	Southern California Elevator Constructor Joint Apprenticeship And Training Committee (Los Angeles)	754
Engineer Committees	Associated General Contractors Of San Diego, Inc. Construction Equipment Operator U.A.C. (San Diego)	63
Engineer Committees	J.A.C. For The Operating Engineers For The 46 Counties Of Northern California (Sacramento)	27
Engineer Committees	Joint Apprenticeship Committee For Operating Engineers For The 46 Northern Counties In California (Sacramento)	544
Engineer Committees	Northern California & Northern Nevada Stationary Engineers J.A.C. (San Francisco)	232
Engineer Committees	Operating & Maintenance Engineers Apprenticeship & Training Trust For Southern California (Los Angeles)	112
Engineer Committees	Southern California Operating Engineers J. A. C. (Los Angeles)	391
Glazier & Glass Workers Committees	Northern California District Council 16 Glaziers, Architectural Metal And Glass Workers Jatc (Alameda)	425
Glazier & Glass Workers Committees	San Diego & Imperial Counties Glaziers J.A.C. (San Diego)	42
Glazier & Glass Workers Committees	Southern California Glaziers & Glassworkers Industry J.A.C. (Orange)	343
Health Services Committees	State Of California . Psychiatric Tech Unit 18 J.A.C. (Sacramento)	47
Heating Ventilation & Air Conditioning	Bay Area Sheet Metal J.A.C. (Alameda)	115
Heating Ventilation & Air Conditioning	Fresno Area Plumbers, Pipe & Refrigeration Fitters J.A.T.C. (Fresno)	33
Heating Ventilation & Air Conditioning	Fresno Sheet Metal Workers J.A.T.C. (Fresno)	1
Heating Ventilation & Air Conditioning	Humboldt, Del Norte & Trinity Sheet Metal J.A.C. (Sonoma)	1

INDUSTRY	NAME	NO. OF APPRENTICE
Heating Ventilation & Air Conditioning	Inland Refrigeration J.J. & A.T.C. (San Bernardino)	42
Heating Ventilation & Air Conditioning	J. A. & T. C. , Plumbing, Pipe Fitting & Refrigeration Industry Of San Mateo (San Mateo)	56
Heating Ventilation & Air Conditioning	Kern, Inyo & Mono Counties Plumbing, Pipefitter & Refrigeration/Air Conditioning Mechanic J.A.T.C. (Kern)	11
Heating Ventilation & Air Conditioning	Los Angeles & Orange Counties Air-Conditioning & Refrigeration J.J.A.T.C. (Los Angeles)	189
Heating Ventilation & Air Conditioning	Monterey, Santa Cruz And San Benito Counties Sheet Metal Joint Apprenticeship Committee (Monterey)	6
Heating Ventilation & Air Conditioning	Motion Picture Studio Electrician (Journeyman Wireman) J.A.C. (Los Angeles)	3
Heating Ventilation & Air Conditioning	Napa/Solano Counties Plumbers And Steamfitters J.A.T.C. (Solano)	1
Heating Ventilation & Air Conditioning	Northern California Valley Sheet Metal Industry J.A.C. (Sacramento)	31
Heating Ventilation & Air Conditioning	Pipe Trades J.A.T.C. Of Santa Clara And San Benito Counties (Santa Clara)	93
Heating Ventilation & Air Conditioning	Plumbing & Pipefitting Industry Of Sacramento & Yolo District J.A.C. (Sacramento)	68
Heating Ventilation & Air Conditioning	San Joaquin- Stanislaus Area Plumbers, Pipe & Refrigeration Fitters, J.A.T.C. (Stanislaus)	4
Heating Ventilation & Air Conditioning	So. Calif. Chapter Of A.B.C., Inc. Heating, Ventilation & Air Cond. U. A. C. (Orange)	1
Heating Ventilation & Air Conditioning	Southern California Sheet Metal J.A.&T.C. (Los Angeles)	2
Heating Ventilation & Air Conditioning	The Joint Apprenticeship And Training Committee Of The Plumbing And Pipefitting Ua Local38 (San Francisco)	37
Heating Ventilation & Air Conditioning	Tri Counties Sheet Metal & Air Conditioning Industry J.A.C. (Ventura)	2
Heating Ventilation & Air Conditioning	United Association Local Union 342 J.A.T.C. (Contra Costa)	104
Heating Ventilation & Air Conditioning	Yuba, Sutter & Colusa Counties Plumbers J.A.C. (Sutter)	10
Iron & Steel Workers Committees	International Assoc Of Bridge, Structural,Ornamental& Reinforcing Ironworkers Local 155 Jatc (Fresno)	92
Iron & Steel Workers Committees	Intl Assoc Bridge, Structural, Ornamental & Reinforcing Ironworker L416 J.A.T.C. (Orange)	289
Iron & Steel Workers Committees	Int'L Association Of Bridge, Structural, Ornamental And Reinforcing Ironworkers, Local 118 Jatc (Sacramento)	164
Iron & Steel Workers Committees	Intl. Assoc. Bridge, Structural, Ornamental & Reinforcing Ironworker L433 J.A.T.C. (Orange)	539
Iron & Steel Workers Committees	Intl. Assoc. Of Bridge, Structural,Ornamental & Reinforcing Ironworkers Local 378 Oakland J.A.T.C. (Solano)	417
Iron & Steel Workers Committees	Intl.Assc.Of Bridge, Structural,Ornamental & Reinforcing Ironworkers Local 377 San Francisco Jatc (Solano)	236
Iron & Steel Workers Committees	Intl.Assoc. Of Bridge,Structural,Ornamental & Reinforcing Ironworkers Local 377 Santa Clara J.A.T.C. (Solano)	150
Iron & Steel Workers Committees	Northern California Shop Ironworkers J.A.C. (San Joaquin)	57
Iron & Steel Workers Committees	San Diego Bridge, Structural, Ornamental And Reinforcing Ironworkers J.A.T.C Local 229. (San Diego)	168
Laborers Committees	Associated Builders & Contractors Golden Gate Chapter Construction Craft Laborer U.A.C. (Alameda)	25
Laborers Committees	Associated General Contractors Of America, San Diego Chapter (San Diego)	147
Laborers Committees	Engineering & Utility Contractors Association & Automotive Marine & Speciality Painters Local #1176 (Alameda)	5
Laborers Committees	Laborers Southern California Joint Apprenticeship Committee (Los Angeles)	963
Laborers Committees	Northern California District Council Of Laborers Hod Carrier J.A.C. (Contra Costa)	22
Laborers Committees	Northern California District Council Of Laborers Construction Craft Laborers J.A.T.C. (Contra Costa)	640
Laborers Committees	Northern California District Council Of Laborers Parking & Highway Improvement Painter (Laborer) Jatc (Contra Costa)	26
Laborers Committees	Southern California Bricktenders J.A.C (Los Angeles)	11
Laborers Committees	Southern California Pavement Striper, Road Slurry, Seal Coat & Highway Maintenance Jac (Riverside)	64
Laborers Committees	Southern California Plaster Tenders J.A.C. (Los Angeles)	53
Lineman Committees	Cal-Nev Power Lineman J.A.T.C. (Riverside)	249
Lineman Committees	Irby Construction Company Line Erectors Apprenticeship Program (Imperial)	11
Machinists And Tool & Die Committees	California North Bay Chapter National Tooling And Machining Assoc. (Sonoma)	30
Machinists And Tool & Die Committees	Five Bay Counties Mill And Cabinet Joint Apprenticeship And Training Committee (Alameda)	22
Machinists And Tool & Die Committees	Santa Clara & San Benito Counties Machinist Joint Apprenticeship And Training Committee (Santa Clara)	16
Machinists And Tool & Die Committees	Southern California Tool & Die Mold, Machinist & Metal Working Trades Apprenticeship Committee (Los Angeles)	56
Manufacturing Committees	San Joaquin And Sacramento Area Mill Cabinet J.A.T.C. (San Joaquin)	14
Meat Cutter Committees	Humboldt & Del Norte Meatcutters J.A.C. (San Mateo)	2
Meat Cutter Committees	Oakland & Vicinity Meat Industry J.A.C. (Alameda)	27

INDUSTRY	NAME	NO. OF APPRENTICE
Meat Cutter Committees	Orange County-Harbor Area Meat Cutter J.A.C. (Orange)	46
Meat Cutter Committees	San Francisco Meatcutters J.A.C. (San Mateo)	70
Meat Cutter Committees	Santa Clara County Meat Cutters J.A.T.C. (Santa Clara)	65
Milwright Committees	Millwrights Training Committee For Northern California (Alameda)	301
Milwright Committees	Southern California Millwrights & Machinery Erectors J.A.T.C. (Los Angeles)	331
Painting & Decoration Committees	Associated Builders & Contractors Golden Gate Chapter Painting U.A.C. (Alameda)	53
Painting & Decoration Committees	Central Valley Painters, Decorators And Paperhangers J.A.C. (Fresno)	31
Painting & Decoration Committees	Engineering & Utility Contractors Association & Automotive Marine & Speciality Painters Local #1176 (Alameda)	5
Painting & Decoration Committees	Painting & Decorating Joint Apprenticeship Training Committee Of The Bay Area, Inc. (Alameda)	495
Painting & Decoration Committees	Paper & Paperhanger Decorators J.A.C. (Los Angeles)	456
Painting & Decoration Committees	San Diego Associated General Contractors J.A.C. (San Diego)	138
Painting & Decoration Committees	Southern California Drywall Finishers Joint Apprenticeship Training Committee (Los Angeles)	273
Painting & Decoration Committees	Southern California Painting And Decorating Contractors Of America, Uac (Orange)	70
Plasterers Committees	Bay Area Plastering Industry J.A.T.C. (San Mateo)	52
Plasterers Committees	Northern California Plasterers J.A.T.C. (Yolo)	51
Plasterers Committees	Southern California Plastering Apprenticeship Trust & Joint Apprenticeship Committee (Orange)	130
Plasterers Committees	Southern California Plastering Institute Apprenticeship Trust & Joint Apprenticeship Committee (Los Angeles)	106
Plumbing Committees	Associated Builders & Contractors Golden Gate Chapter Plumbing U.A.C. (Alameda)	31
Plumbing Committees	Associated Builders & Contractors Of San Diego, Inc. Plumbing / Pipefitting U.A.C. (San Diego)	74
Plumbing Committees	California American Fire Sprinkler Association, U.A.C. (Alameda)	187
Plumbing Committees	Fresno Area Plumbers, Pipe & Refrigeration Fitters J.A.T.C. (Fresno)	48
Plumbing Committees	Glendale, Burbank, San Fernando Valley & Antelope Valley Plumbers & Steamfitters J.A.T.C. (Los Angeles)	351
Plumbing Committees	J. A. & T. C. , Plumbing, Pipe Fitting & Refrigeration Industry Of San Mateo (San Mateo)	103
Plumbing Committees	Kern, Inyo & Mono Counties Plumbing, Pipefitter & Refrigeration/Air Conditioning Mechanic J.A.T.C. (Kern)	40
Plumbing Committees	Landscape & Irrigation Fitter Of Southern California J.A.T.C. (Los Angeles)	222
Plumbing Committees	Long Beach Plumbers Jatc (Los Angeles)	58
Plumbing Committees	Los Angeles & Vicinity Steamfitters & Industrial Pipefitter J.A.T.C. (Los Angeles)	241
Plumbing Committees	Los Angeles Metropolitan Plumbers J.A.T.C. (Los Angeles)	296
Plumbing Committees	Monterey & Santa Cruz Counties Plumbers & Pipefitters J.A.T.C. (Monterey)	31
Plumbing Committees	Napa/Solano Counties Plumbers And Steamfitters J.A.T.C. (Solano)	81
Plumbing Committees	Northern California Local 355 J.A.T.C. (Solano)	29
Plumbing Committees	Orange County Plumbers & Steamfitters Joint Apprenticeship & Training Committee (Orange)	214
Plumbing Committees	Oregon Sw Washington/Nw California Plumbers J.A.T.C. (Humboldt)	9
Plumbing Committees	P.H.C.C. Of The Greater Sacramento Area Plumbers U.A.C. (Sacramento)	96
Plumbing Committees	Pipe Trades J.A.T.C. Of Santa Clara And San Benito Counties (Santa Clara)	204
Plumbing Committees	Plumbing & Pipefitting Industry Of Sacramento & Yolo District J.A.C. (Sacramento)	153
Plumbing Committees	Pomona Valley Plumbers & Steamfitters J.A.C. (San Bernardino)	253
Plumbing Committees	Reno Plumbers & Fitters J.A.T.C. (Unknown)	125
Plumbing Committees	Road Sprinkler Fitters U. A. Local 669 J.A.T.C. (Unknown)	172
Plumbing Committees	San Bernardino & Riverside Counties Plumbing & Steamfitter Trade J.A.C. (San Bernardino)	132
Plumbing Committees	San Diego & Imperial Counties Pipe Trades J.A.C. (San Diego)	215
Plumbing Committees	San Joaquin- Stanislaus Area Plumbers, Pipe & Refrigeration Fitters, J.A.T.C. (Stanislaus)	99
Plumbing Committees	San Luis Obispo County Plumbing J.A.C. (San Luis Obispo)	29
Plumbing Committees	Santa Barbara County Pipe Trades J.A.C. (Santa Barbara)	46
Plumbing Committees	Southern California Chapter Of The Associated Builders & Contractors, Inc. Plumbers U.A.C. (Orange)	86

INDUSTRY	NAME	NO. OF APPRENTICE
Plumbing Committees	Sprinkler Fitters U. A. Local 483 Joint Apprenticeship Committee (Alameda)	229
Plumbing Committees	Sprinkler Fitters U.A. Local 709 J.A.C. (Los Angeles)	171
Plumbing Committees	The Joint Apprenticeship And Training Committee Of The Plumbing & Pipe Fitting Industry Ua Local 38 (San Francisco)	240
Plumbing Committees	United Association Local Union 342 J.A.T.C. (Contra Costa)	224
Plumbing Committees	Ventura County Plumbing & Pipefitting J.A.C. (Ventura)	62
Plumbing Committees	Yuba, Sutter & Colusa Counties Plumbers J.A.C. (Sutter)	50
Roofers Committees	Central Valley Roofers, Waterproofers & Allied Workers J.A.T.C. (Fresno)	332
Roofers Committees	East Bay And North Bay Counties Roofers/Waterproofers J.A.T.C. (Alameda)	487
Roofers Committees	Independent Roofing Contractors Of California, U.A.C. (Alameda)	236
Roofers Committees	San Diego & Imperial Counties Slate, Tile & Composition Roofer J.A.C. (San Diego)	39
Roofers Committees	Santa Clara Valley Area Roofers J.A.T.C. (Santa Clara)	189
Roofers Committees	Southern California Roofers Waterproofers J.A.C. (Los Angeles)	554
Roofers Committees	Valley Roofers & Waterproofers J.A.T.C. (Sacramento)	70
Roofers Committees	West Bay Counties Roofers And Waterproofers J.A.T.C. (Alameda)	233
Sheet Metal Committees	Air Conditioning Trades Association U.A.C. (San Joaquin)	48
Sheet Metal Committees	Associated Builders & Contractors Of San Diego, Inc. Sheet Metal U.A.C. (San Diego)	74
Sheet Metal Committees	Bay Area Sheet Metal J.A.C. (Alameda)	558
Sheet Metal Committees	Fresno Sheet Metal Workers J.A.T.C. (Fresno)	57
Sheet Metal Committees	Humboldt, Del Norte & Trinity Sheet Metal J.A.C. (Sonoma)	6
Sheet Metal Committees	Kern & Northern Los Angeles Counties Air Conditioning & Sheet Metal Workers J.A.T.C. (Kern)	41
Sheet Metal Committees	Modesto Area Sheet Metal Workers Jatc (Stanislaus)	20
Sheet Metal Committees	Monterey, Santa Cruz And San Benito Counties Sheet Metal Joint Apprenticeship Committee (Monterey)	26
Sheet Metal Committees	Northern California Valley Sheet Metal Industry J.A.C. (Sacramento)	140
Sheet Metal Committees	San Diego Sheet Metal J.A.C. (San Diego)	142
Sheet Metal Committees	South. Calif. Chapter Of Associated Builders And Contractors, Inc. Sheet Metal U. A. C. (Orange)	13
Sheet Metal Committees	Southern California Sheet Metal J.A.&T.C. (Los Angeles)	471
Sheet Metal Committees	Southern California Sheet Metal J.A.&T.C. (Los Angeles)	172
Sheet Metal Committees	Tri Counties Sheet Metal & Air Conditioning Industry J.A.C. (Ventura)	60
Surveyor Committees	Northern California Surveyors J.A.C. (Alameda)	87
Surveyor Committees	Southern California Surveyors J.A.C. (San Bernardino)	154
Tile Layer/Setter Committees	Bricklayers & Allied Crafts Local 3 J.A.T.& E.C. (Alameda)	28
Tile Layer/Setter Committees	Joint Apprenticeship Committee Tile & Terrazo Industry (Los Angeles)	201
Tile Layer/Setter Committees	Northern California Tile Industry Joint Apprenticeship Training Committee (Alameda)	94
Tile Layer/Setter Committees	Sacramento Area Tile, Terrazzo & Marble Trades J.A.T.C. (Sacramento)	28
Tile Layer/Setter Committees	Terrazzo Finisher Jatc For Southern California (Los Angeles)	34

Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping	Count	Degree/Certificate/Courses, etc.	Count
EE : Energy Efficiency	163	Associate Degree	102
RE : Renewable Energy	52	Certificate	103
WE : Water Efficiency	44	Certificate/Degree	7
MHA = May Have Application	271	Courses (Planned)	107 13
		n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
Alameda				
RE	Automotive technology, diesel and truck mechanics		Green Econ Scan	n/c
Allan Hancock				
WE	Plumbing Apprenticeship		WE Scan	Certificate
EE	Civil engineering, natural science, environmental technology		Green Econ Scan	n/c
RE	Intro Renewable Energy		ATTE	Certificate
MHA	Environmental Studies		Infrastructure Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Heavy Equipment Maintenance		Infrastructure Scan	n/c
MHA	Heavy Equipment Operation		Infrastructure Scan	n/c
American River				
EE	Lighting Efficiency		N/Far N	Certificate
EE	Energy Management Technician		N/Far N	Certificate
EE	Home Technology Integration		N/Far N	Certificate
EE	Interior Design/Green Bldg & Sustainable Design (LEED)		N/Far N	Certificate
RE	Alternative Fuels Technology		N/Far N	Certificate
RE	Clean Diesel Technology		N/Far N	Certificate
RE	Solar Technology		N/Far N	Certificate
RE	Solar Systems Design		N/Far N	Certificate
EE	Related Courses		N/Far N	Courses
MHA	Ecology, natural resources, green diesel technology, geographic		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Air Conditioning Specialist		GB SoCal	Associate Degree
MHA	Air Conditioning-Refrigeration Specialist		GB SoCal	Associate Degree
MHA	Electrical Technology		GB SoCal	Associate Degree
MHA	Landscape Construction		GB SoCal	Associate Degree
EE	Electrical Technology		Utilities Scan	Certificate
EE	Refrigeration Specialist		CV Green TOP Codes	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Antelope Valley College				
EE	Auto, Fuel, Emission Systems, and CA Clean Air		InfrastructureScan	Certificate

Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
EE	Surey of Electronics (alternative Energy		InfrastructureScan	Associate Degree
EE	Fundamentals of Lighting Design		InfrastructureScan	Associate Degree
Bakersfield				
WE	Plumbers & Steamfitters Apprenticeship		WE Scan	Certificate
MHA	Environmental engineering, environmental science, environment		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Barstow				
MHA	Natural resources		Green Econ Scan	n/c
Berkley City College				
MHA	Biotech program focus in physical scienc	Berkeley City College	Green Econ Scan	n/c
Butte				
EE	Energy Efficiency & Renewable Energy		N/Far N	Courses
EE	Green Bldg Technology		N/Far N	Courses
EE	Green Bldg & LEED Certification		N/Far N	Courses
RE	Energy Efficiency & Renewable Energy		N/Far N	Courses
WE	Restoration Water Purification		N/Far N	Courses
MHA	Civil engineering, ecology, environmental science, hydrological s		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Cabrillo				
EE	Construction & Energy Mgmt		Bay EE Scan	Associate Degree
EE	Building Codes & Inspection		Bay EE Scan	Associate Degree
EE	Hands-on Skills		Bay EE Scan	Certificate
EE	EE Related Courses		Bay EE Scan	Courses
RE	PV Solar Design & Installation		Bay Solar	Courses
MHA	Engineering Technology		Infrastructure Scan	n/c
CACTUS (San Jose)				
EE	Building Analyst Professional		COE Director	Courses
EE	Home Energy Rater Services (HERS)		COE Director	Courses

Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
EE	California Home Energy Efficiency Rating Service (CHEERS)		COE Director	Courses
RE	Solar PV Installer Training		COE Director	Courses
CCSF				
EE	Construction Management		Bay EE Scan	Associate Degree
EE	Air Conditioning & Refrigeration		Bay EE Scan	Certificate
EE	Engineered Plumbing Systems		Bay EE Scan	Certificate
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Environmental horticulture		Green Econ Scan	n/c
Cerritos				
MHA	Architectural Technology		GB SoCal	Associate Degree
EE	Electrical Trades Apprenticeship		Utilities Scan	n/c
MHA	Natural resources		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Architectural (Transfer)		GB SoCal	Associate Degree
Cerro Coso				
MHA	Natural resources, industrial technology		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
RE	Industrial Technology - Solar Tech			Associate Degree, Certificates
RE	Industrial Technology - Wind Tech			Associate Degree, Certificates
Chabot				
	Plant Engineering Apprenticeship			
WE	Plumbing & Pipefitting		WE Scan	Certificate
EE	Electronics Systems Technology		Bay EE Scan	Courses
RE	PV Solar Design & Installation		Bay Solar	Courses
EE	HVAC		Green Econ Scan	n/c
Chaffey				
MHA	Drafting Technician: Architectural		GB SoCal	Associate Degree
MHA	Earth sciences		Green Econ Scan	n/c
Citrus				
EE	Energy Systems Technology		COE Director	(Planned)
EE	Building Systems Design Technician		COE Director	(Planned)

Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
	Building Maintenance & Operations Technician		COE Director	(Planned)
EE				
MHA	Heating & Air Conditioning		GB SoCal	Associate Degree
WE	Water Technology		WO Scan	Associate Degree
WE	Water Technology		WO Scan	Certificate
MHA	Heating & Air Conditioning		GB SoCal	Courses
MHA	Architectural Drafting: CAD		GB SoCal	Courses
MHA	Architectural Design		GB SoCal	Courses
WE	Related Courses		WO Scan	Courses
EE	Wastewater engineering and operations		Green Econ Scan	n/c
MHA	Public Works		Infrastructure Scan	n/c
College of Marin				
MHA	Civil engineering, environmental landscaping, natural resources,		Green Econ Scan	n/c
College of the Canyons				
MHA	Architectural Drafting		GB SoCal	Associate Degree
MHA	Construction Mgmt Technology		GB SoCal	Associate Degree
MHA	Natural resources		Green Econ Scan	n/c
MHA	Surveying		Infrastructure Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
WE	Water Systems Technology		CV Green TOP Codes	n/c
College of the Desert				
EE	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
MHA	Construction Mgmt (Emp. Oriented)		GB SoCal	Associate Degree
MHA	Construction Mgmt (Transfer)		GB SoCal	Associate Degree
MHA	Architectural Technology		GB SoCal	Associate Degree
MHA	Architectural Technology (Transfer Oriented)		GB SoCal	Associate Degree
EE	HVAC		CV Green TOP Codes	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
RE	Alternative fuels technician		Green Econ Scan	n/c
College of the Redwoods				
MHA	Metal working, diesel fuel injection		Green Econ Scan	n/c

Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
College of the Sequoias				
EE	HVAC		CV Green TOP Codes	n/c
EE	Construction, welding, carpentry, agriculture power equipment, w		Green Econ Scan	n/c
RE	Solar PV Installer Training		CV Green TOP Codes	n/c
RE	Alternative fuels		Green Econ Scan	n/c
College of the Siskiyous				
MHA	Welding		Green Econ Scan	n/c
Columbia				
WE	Environmental science, watershed restoration, GIS		Green Econ Scan	n/c
Consumnes				
RE	Environmental Studies & Sustainability		N/Far N	Associate Degree
EE	Home Energy Auditing		N/Far N	Certificate
EE	Green Building		N/Far N	Certificate
EE	Green Bldg Draftsperson, Bldg			
EE	Information Mgmt		N/Far N	Certificate
EE	Sustainable Landscape & Water			
WE	Systems Design		N/Far N	Certificate
RE	Automotive Program		N/Far N	Courses
Contra Costa				
MHA	Earth sciences		Green Econ Scan	n/c
Copper Mountain				
MHA	Environmental sciences		Green Econ Scan	n/c
Consumnes River				
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Crafton Hills				
MHA	Environmental sciences		Green Econ Scan	n/c
Cuesta				
MHA	Environmental science, natural resources, environmental horticult		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Cuyamaca				

Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping	Count	Degree/Certificate/Courses, etc.	Count
EE : Energy Efficiency	163	Associate Degree	102
RE : Renewable Energy	52	Certificate	103
WE : Water Efficiency	44	Certificate/Degree	7
MHA = May Have Application	271	Courses (Planned)	107 13
		n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
	Solar Photovoltaic Installation			Certificate
	Solar Thermal Installation			Certificate
	Certified landscape Irrigation auditor Preparation			Certificate
	Water Management Certification Program			Certificate
	Water Conservation Practitioner Grade 1			Certificate
	Industrial Wastewater And Storm water Management			Certificate
	Hydrology		Green Econ Scan	n/c
MHA	Environmental, Health, and Safety Management			Associate Degree
MHA	Irrigation Technology		GB SoCal	Associate Degree
MHA	Landscape Technology		GB SoCal	Associate Degree
MHA	Landscape Design		GB SoCal	Associate Degree
MHA	Civil engineering, environmental engineering, environmental scie		Green Econ Scan	n/c
MHA	Surveying		Infrastructure Scan	n/c
WE	Wastewater Collection Systems		COE Director	n/c
WE	Water Distribution Systems		COE Director	n/c
WE	Wastewater Treatment Operator		COE Director	n/c
WE	Water Treatment Plant Operator		COE Director	n/c
Cypress				
RE	Solar Technology		LA Solar	(Planned)
MHA	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
EE	HVAC, GIS		Green Econ Scan	n/c
De Anza				
MHA	Environmental Studies		Infrastructure Scan	n/c
RE	PV Solar Design & Installation		Bay Solar	(Planned)
EE	Energy Mgmt & Climate Policy		Bay EE Scan	Associate Degree
	Environ. Compliance &			
EE	Polution Prevention		Bay EE Scan	Associate Degree
EE	Energy Mgmt & Climate Policy		Bay EE Scan	Certificate
	Environ. Compliance &			
EE	Polution Prevention		Bay EE Scan	Certificate
Diablo Valley				
EE	Architecture		Bay EE Scan	Associate Degree
EE	Engineering Technology		Bay EE Scan	Associate Degree

Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping	Count	Degree/Certificate/Courses, etc.	Count
EE : Energy Efficiency	163	Associate Degree	102
RE : Renewable Energy	52	Certificate	103
WE : Water Efficiency	44	Certificate/Degree	7
MHA = May Have Application	271	Courses (Planned)	107 13
		n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
EE	Construction & Bldg Inspection		Bay EE Scan	Certificate
EE	Construction Management		Bay EE Scan	Certificate
	Construction & Supervision &			
EE	Superintendency		Bay EE Scan	Certificate
EE	Architecture		Bay EE Scan	Certificate
EE	Engineering Technology		Bay EE Scan	Certificate
EE	HVAC Courses		Bay EE Scan	Courses
EE	Related Courses		Bay EE Scan	Courses
RE	PV Solar Design & Installation		Bay Solar	Courses
EE	GIS, alternate energy technology program		Green Econ Scan	n/c

East LA

EE	Energy Efficiency Weatherization		COE Director	(Planned)
MHA	Architectural Computer Aided Design		GB SoCal	Associate Degree
MHA	Architectural Transportation Planning		GB SoCal	Associate Degree
MHA	Architectural Drafting		GB SoCal	Associate Degree
MHA	Architectural GIS/MAPS		GB SoCal	Courses
MHA	Architectural Drawing		GB SoCal	Courses
	Architectural Computer Aided Design,			
MHA	Auto CAD		GB SoCal	Courses
MHA	Architectural Drawing		GB SoCal	Courses
MHA	Architectural Computer Aided Design		GB SoCal	Courses
MHA	Architectural Graphics		GB SoCal	Courses
RE	Equipment & Building Systems		LA Solar	Courses
RE	Introductory Photovoltaic Installer		LA Solar	Courses
MHA	Engineering Technology		Infrastructure Scan	n/c

El Camino

EE	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
MHA	Construction Technology		GB SoCal	Associate Degree
EE	Air Conditioning & Refrigeration		GB SoCal	Certificate
EE	HVAC		CV Green TOP Codes	n/c
EE	Horticulture, environmental sciences, environmental technology		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c

Evergreen Valley

Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
EE	Fuel and electrical technology		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Feather River				
MHA	Environment (ENVR)		N/Far N	Associate Degree
WE	Fisheries & Hatchery Mgmt		N/Far N	Courses
WE	Ag Mgmt & Landscape		N/Far N	Courses
WE	Watershed Protection & Restoration		N/Far N	Courses
MHA	Environmental Studies		Infrastructure Scan	n/c
Folsom Lake				
WE	Water Management		N/Far N	Certificate
WE	Waste Water Management		N/Far N	Certificate
EE	Alternative Energy Applications & Sustainabiity		N/Far N	Courses
Foothill				
EE	HVAC Courses		Bay EE Scan	Courses
EE	Commercial & residential electrician		Bay EE Scan	n/c
MHA	Horticulture, environmental sciences, GIS		Green Econ Scan	n/c
Fresno City				
EE	Air Conditioning		CV Green TOP Codes	n/c
EE	HVAC and industrial electronics, environmental technology		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Fullerton				
MHA	Architecture		GB SoCal	Associate Degree
MHA	Construction Technology		GB SoCal	Associate Degree
MHA	Construction Mgmt		GB SoCal	Associate Degree
MHA	Landscape Management		GB SoCal	Associate Degree
MHA	Landscape Irrigation		GB SoCal	Certificate
MHA	Construction Estimating		GB SoCal	Courses
MHA	Environmental technology, environmental science		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Glendale				

Green College Master Course List

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EWERE Grouping	Count	Degree/Certificate/Courses, etc.	Count
EE : Energy Efficiency	163	Associate Degree	102
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WE : Water Efficiency	44	Certificate/Degree	7
MHA = May Have Application	271	Courses (Planned)	107 13
		n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Architectural Drafting		GB SoCal	Associate Degree
EE	Drafting/Electro-Mechanical Design		Utilities Scan	Certificate
Golden West				
MHA	Architectural Technology		GB SoCal	Associate Degree
RE	Environmental Technology		Solar Tech	Certificate
MHA	CAD - Architectural		GB SoCal	Courses
	Two year program of study including Renewable Energy, Solar-Thermal & Solar-Photovoltaics			
RE			LA Solar	n/c
Hartnell				
MHA	Environmental technology		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
WE	Water Technology		CV Green TOP Codes	n/c
Imperial Valley				
	Air Conditioning & Refrigeration Technology			
EE			GB SoCal	Courses
EE	Environmental Control (HVAC)			Associate Degree/Certification
EE/RE	Industrial Electronics (Controls)			Certification
WE	Water Treatment			Certification
RE/EE	Electrical Wiring (DAS)			Certification
EE/RE	Building Construction			Certification
	Industrial electronics, wastewater engineering and operations, environmental technology			
WE			Green Econ Scan	n/c
LA City				
RE	Solar Technician		LA Solar	(Planned)
MHA	Architecture		GB SoCal	Associate Degree
MHA	Engineering Technology		Infrastructure Scan	n/c
LA Harbor				
MHA	Architecture & Technology		GB SoCal	Associate Degree
MHA	Architecture & Technology		GB SoCal	Courses
MHA	Architecture & Technology		GB SoCal	Courses

Green College Master Course List

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Engineering Technology		Infrastructure Scan	n/c
LA Pierce				
MHA	Architecture & Technology		GB SoCal	Associate Degree
MHA	Architecture: Construction Tech		GB SoCal	Associate Degree
MHA	Landscape Installation & Maint		GB SoCal	Associate Degree
MHA	Landscape Planning and Design		GB SoCal	Associate Degree
MHA	Landscape Technician - Basic		GB SoCal	Courses
MHA	Landscape Technician - Advanced		GB SoCal	Courses
LA Trade Tech				
EE	Electrical Mechanic		COE Director	(Planned)
EE	Energy Efficiency Weatherization Refrigeration & Air Conditioning		COE Director	(Planned)
EE	Mechanics		GB SoCal	Associate Degree
MHA	Architectural Technology		GB SoCal	Associate Degree
MHA	Electrical Construction & Maint. Electrical Construction & Maintenance:		GB SoCal	Associate Degree
MHA	Construction Tech		GB SoCal	Associate Degree
WE	Water Systems Technology		WO Scan	Associate Degree
EE	Electrical Construction and Maintenance		Utilities Scan	Certificate
EE	Electrical Cable Splicer Apprenticeship		Utilities Scan	Certificate
EE	National Electrical Code		Utilities Scan	Certificate
EE	Basic Electrical Trainee		Utilities Scan	Certificate
EE	Electrical Lineman Apprenticeship		Utilities Scan	Certificate
MHA	Voice Data Video and Fire Life Safety Tech		Utilities Scan	Certificate
MHA	Programmable Logic Controllers		Utilities Scan	Certificate
MHA	Motor Control		Utilities Scan	Certificate
RE	Solar Energy Maintenance		COE Director	Certificate
RE	Biodiesel Technician		COE Director	Certificate
RE	Hybrid Vehicle Technology		COE Director	Certificate
RE	CNG/LNG Transportation		COE Director	Certificate
RE	Solar-Photovoltaic Installer Fundamentals of Refrigeration & Air		LA Solar	Certificate
EE	Conditioning		GB SoCal	Courses

Green College Master Course List

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EWERE Grouping	Count	Degree/Certificate/Courses, etc.	Count
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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Architectural Tech: Digital Design		GB SoCal	Courses
	Architectural Tech: Computer Aided			
MHA	Drafting		GB SoCal	Courses
MHA	Historic Preservation		GB SoCal	Courses
	Operation & Maintenance Engineering:			
MHA	Steam Plant		GB SoCal	Courses
	Electrical Cable Splicer			
MHA	(ApprenticeshipP		GB SoCal	Courses
	Voice Data Video & Fire Life Safety			
MHA	Technician		GB SoCal	Courses
	Electrical Const & Maint: Programmable			
MHA	Logic Controllers		GB SoCal	Courses
	Electrical Const & Maint: National			
MHA	Electrical Code		GB SoCal	Courses
MHA	Electrical Const & Maint: Motor Control		GB SoCal	Courses
MHA	Basic Electrical Trainee		GB SoCal	Courses
WE	Related Courses		WO Scan	Courses
EE	Operation & Maintenance Eng.		CV Green TOP Codes	n/c
EE	Refrig & AC Mechanics		CV Green TOP Codes	n/c
MHA	Public Works		Infrastructure Scan	n/c
RE	Diesel technology, solid waste operations, HVAC, wastewater en		Green Econ Scan	n/c
WE	Supply Water Technology		CV Green TOP Codes	n/c

LA Valley

EE	Sustainable Construction Management		COE Director	Associate Degree
EE	Sustainable Construction Management		COE Director	Certificate
MHA	Architecture		GB SoCal	Courses
MHA	Industrial operations and manufacturing, earth sciences		Green Econ Scan	n/c

Lake Tahoe

EE	Introduction to Green Technology		N/Far N	Courses
EE	Introduction to Green Careers		N/Far N	Courses

Green College Master Course List

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EWERE Grouping	Count	Degree/Certificate/Courses, etc.	Count
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MHA = May Have Application	271	Courses (Planned)	107 13
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EWERE	Program Name	College	Source	Degree/Cert/Courses
Laney				
EE	Residential/Light Commercial HVAC/R & Commercial HVAC/R		Bay EE Scan	Associate Degree
EE	Carpentry w/green carpentry emphasis		Bay EE Scan	Associate Degree
EE	Construction Management		Bay EE Scan	Associate Degree
EE	Residential/Light Commercial HVAC/R & Commercial HVAC/R		Bay EE Scan	Certificate
EE	Carpentry w/green carpentry emphasis		Bay EE Scan	Certificate
EE	Construction Management		Bay EE Scan	Certificate
EE	Building Codes & Inspection		Bay EE Scan	Certificate
EE	Architecture Course in Sustainable Design		Bay EE Scan	Courses
EE	Architectural & engineering technology, HVAC & refrigeration (en		Green Econ Scan	n/c
Las Positas				
MHA	Occupational health and safety		Green Econ Scan	n/c
Long Beach				
RE	Solar Technician/Installer		LA Solar	(Planned)
EE	Air Conditioning & Refrigeration (Theory & Practical Exp.)		GB SoCal	Associate Degree
EE	Air Conditioning & Refrigeration (Theory Only)		GB SoCal	Associate Degree
MHA	Architectural Design		GB SoCal	Associate Degree
EE	AC/Refrigeration		CV Green TOP Codes	Courses
MHA	Home Remodeling & Repair		GB SoCal	Courses
MHA	Architectural Drafting		GB SoCal	Courses
RE	Alternative fuels		Green Econ Scan	n/c
Los Medanos				
EE	Energy Systems Technology Energy Technology		Bay EE Scan	Associate Degree
EE	Facilities Management (Appliance Services)		Bay EE Scan	Associate Degree

Green College Master Course List

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EWERE Grouping	Count	Degree/Certificate/Courses, etc.	Count
EE : Energy Efficiency	163	Associate Degree	102
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WE : Water Efficiency	44	Certificate/Degree	7
MHA = May Have Application	271	Courses (Planned)	107 13
		n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
EE	Industrial Process Technology Program		Bay EE Scan	Associate Degree
EE	HVAC & Commercial HVAC		Bay EE Scan	Certificate
EE	Environmental Technology		Bay EE Scan	Courses
EE	Electronic technology, environmental science, welding technolog		Green Econ Scan	n/c
EE	Environmental science, welding technology, physical sciences		Green Econ Scan	n/c
Marin				
MHA	Engineering Technology		Infrastructure Scan	n/c
Menocino				
EE	Horticulture, HVAC, natural resources, computer and information		Green Econ Scan	n/c
Merced				
EE	Commercial Refrigeration Technician		CV Green TOP Codes	n/c
EE	HVAC Technician		CV Green TOP Codes	n/c
EE	Agriculture science, horticulture, natural resources		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Merritt				
EE	Green Bldg. & Energy Mgmt Environmental Design & Energy		Bay EE Scan	Associate Degree
MHA	Technology		GB SoCal	Associate Degree
EE	Green Bldg. & Energy Mgmt Energy Systems Technology- Environmental Design & Energy		Bay EE Scan	Certificate
RE	Technology		Solar Tech	Courses
EE	Urban farming ecology, horticulture, environmental restoration, h		Green Econ Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
San Diego Mesa				
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
Mira Costa				
MHA	Architectural Technology		GB SoCal	Associate Degree
MHA	Landscape Management		GB SoCal	Associate Degree
MHA	Irrigation Technology		GB SoCal	Courses
MHA	Landscape Assistant		GB SoCal	Courses
MHA	Radiation		Green Econ Scan	n/c

Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
Miramar				
MHA	Heavy Equipment Maintenance		Infrastructure Scan	n/c
MHA	Heavy Equipment Operation		Infrastructure Scan	n/c
Mission				
EE	Design Drafting: Electro-Mechanical		Utilities Scan	Certificate/Degree
EE	Design Drafting: Electronic		Utilities Scan	Certificate/Degree
MHA	Environmental engineering		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Modesto Junior				
EE	Horticulture, natural resources, industrial systems technician		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Moorpark				
	Drafting Technology/CAD: Architectural			
MHA	Option		GB SoCal	Courses
MHA	Civil engineering, environmental engineering, environmental scie		Green Econ Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
Mt. San Antonio				
MHA	Architectural Technology Level I		GB SoCal	Associate Degree
MHA	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
MHA	Architectural Technology		GB SoCal	Certificate
WE	Water Technology		WO Scan	Certificate
MHA	Architectural Technology Level III		GB SoCal	Courses
MHA	Architectural Technology Level II		GB SoCal	Courses
MHA	Landscape Irrigation		GB SoCal	Courses
MHA	Landscape & Park Maintenanc		GB SoCal	Courses
MHA	Landscape Design & Construction		GB SoCal	Courses
MHA	Tree Care & Maintenanc		GB SoCal	Courses
EE	AC/Refrigeration		CV Green TOP Codes	n/c
EE	Industrial electronics, agriculture power equipment		Green Econ Scan	n/c
Mt. San Jacinto				
MHA	Landscaping Operations		GB SoCal	Courses

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EWERE	Program Name	College	Source	Degree/Cert/Courses
SUEM 100	Our Sustainable Future			Pending - TBO Fall 2010
SUEM 101	Fundamentals of Energy Assessment			Pending - TBO Fall 2010
SUEM 110	Managing Sustainability Business Practices			Pending - TBO Fall 2010
ENGR 115	Introduction to Solar, Wind and Manufacturing			Pending - TBO Fall 2010
ENGR 116	Energy Efficiency and Construction Methods			Pending - TBO Fall 2010
ENGR 114	Machine Tool Technology			Pending - TBO Fall 2010
ENGR 107	Total Quality Management			Pending - TBO Fall 2010
ENGR 117	Photovoltaic Installation			Pending - TBO Fall 2010
ENGR 118	Solar Thermal Installation			Pending - TBO Fall 2010
ENGR 119	Small Wind Installation			Pending - TBO Fall 2010
	Photovoltaic Technology			Pending - TBO Fall 2010
	Solar Thermal Technology			Pending - TBO Fall 2010
	Small Wind Technology			Pending - TBO Fall 2010
	Green Collar Manufacturing			Pending - TBO Fall 2010
	Sustainable Energy Management for Business			Pending - TBO Fall 2010
RE	Environmental sciences, GIS, alternative fuels		Green Econ Scan	n/c
WE	Water Technology		CV Green TOP Codes	n/c
Napa Valley				
RE	PV Solar Installer		Bay Solar	(Planned)
EE	Energy, the Environment & Sustainability		Bay EE Scan	Courses
MHA	Natural resources		Green Econ Scan	n/c
Ohlone				
RE	PV Solar Installation		Bay Solar	(Planned)
RE	Natural resources, environmental studies		Green Econ Scan	n/c
Orange Coast				
EE	Design Drafting: Electro-Mechanical Heating & Air Conditioning: HVAC Technology		Utilities Scan	Certificate
EE	Architectural Technology: Architectural		GB SoCal	Certificate
MHA	Drafting		GB SoCal	Certificate
MHA	Architectural Drafting & Design		GB SoCal	Certificate
MHA	Architecture		GB SoCal	Certificate

Green College Master Course List

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Construction Technology: Master Construction Specialist Construction Technology: Basic		GB SoCal	Certificate
MHA	Construction Practices		GB SoCal	Certificate
MHA	Residential Utilities		GB SoCal	Certificate
MHA	Construction Basics		GB SoCal	Certificate
MHA	Introduction to Construction		GB SoCal	Certificate
MHA	General Contracting & Dev. Construction Tech: Residential		GB SoCal	Certificate
MHA	Construction Development		GB SoCal	Certificate
MHA	Construction Field Mgmt		GB SoCal	Certificate
RE	Solar Energy Installation		COE Director	Certificate
EE	Civil engineering, natural resources, machinist		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Oxnard				
EE	HVAC		CV Green TOP Codes	n/c
MHA	Environmental science		Green Econ Scan	n/c
Palo Verde				
MHA	Welding, environmental engineer, automotive technician		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Palomar				
MHA	Sound Technician Apprenticeship Apprentice Sound & Communications		GB SoCal	Associate Degree
MHA	Systems Installer		GB SoCal	Associate Degree
MHA	Architectural Drafting Technology		GB SoCal	Associate Degree
EE	Design Drafting: Electro-Mechanical		Utilities Scan	Certificate
EE	Apprentice Inside Wireman		Utilities Scan	Certificate/Degree
EE	Apprentice Electrician		Utilities Scan	Certificate/Degree
MHA	Sound Technician Apprenticeship		Utilities Scan	Certificate/Degree
MHA	Apprentice Sound & Communications Installer		Utilities Scan	Certificate/Degree
EE	Apprentice Electrician		GB SoCal	Associate Degree
MHA	Apprentice Inside Wireman		GB SoCal	Associate Degree
MHA	Public Works		Infrastructure Scan	Associate Degree

Green College Master Course List

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EWERE	Program Name	College	Source	Degree/Cert/Courses
WE	Water Technology Home Energy Rating System Program (HERS)		COE Director CHEERS	n/c n/c
WE	Wastewater Technology Education		CV Green TOP Codes	n/c
Pasadena City				
MHA	Building Construction Drafting: CAD Designer		GB SoCal	Associate Degree
MHA	Architectural/Engineering/Construct Drafting: CAD Designer		GB SoCal	Courses
MHA	Architectural/Engineering/Construct Drafting: CAD Modeling & Animation -		GB SoCal	Courses
MHA	Architecture/Eng. Cons		GB SoCal	Courses
MHA	Building, welding, carpentry, automotive technician		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Pierce				
MHA	Nursery technician, horticulture, natural resources, environmental		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
Porterville				
MHA	Agricultural production		Green Econ Scan	n/c
Redwoods				
EE	Restoration/Retrofitting		N/Far N	Courses
EE	Green Technology/Construction Trades		N/Far N	Courses
RE	Photovoltaic		N/Far N	Courses
WE	Water Treatment & Distribution		N/Far N	Courses
WE	Wastewater management		N/Far N	Courses
Reedley				
MHA	Metal working, horticulture, mechanized agriculture, agriculture te		Green Econ Scan	n/c
Rio Hondo				
MHA	Architectural Computer Assisted Design & Drawing		GB SoCal	Associate Degree
MHA	Architecture		GB SoCal	Associate Degree
MHA	Building, welding, carpentry, heavy equipment, environmental tec		Green Econ Scan	n/c

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EWERE	Program Name	College	Source	Degree/Cert/Courses
Riverside City				
EE	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
MHA	Architecture		GB SoCal	Associate Degree
MHA	Architectural Graphics		GB SoCal	Courses
EE	Building, welding, automated systems engineering		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Sac City				
EE	HVAC Bldg Commissioning		N/Far N	Certificate
RE	Renewable & Sustainable Energy Water & Wastewater Treatment Plant		N/Far N	Certificate
WE	Operation Water & Wastewater Treatment Plant		N/Far N	Certificate
WE	Technician		N/Far N	Certificate
EE	HVAC Bldg Commissioning		N/Far N	Courses
RE	Aeronautics/Biodiesel for Aircraft Ground-Based Transportation		N/Far N	Courses
MHA	Surveying		Infrastructure Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
MHA	Civil engineering, ecology, railroad operations		Green Econ Scan	n/c
Saddleback				
MHA	Horticulture, ecology, automotive technician, construction inspect		Green Econ Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
MHA	Architectural Drafting		GB SoCal	Certificate
MHA	General Landscape Design		GB SoCal	Courses
San Bernardino Valley				
EE	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
MHA	Architectural Technology		GB SoCal	Associate Degree
WE	Water Supply Technology		Curricunet	Certificate
WE	Wastewater Treatment		Curricunet	Certificate
WE	Water Distribution		Curricunet	Certificate
WE	Water Treatment		Curricunet	Certificate
EE	Electrical Power Technology		Utilities Scan	Certificate/Degree
MHA	Computer-Aided Drafting Tech		GB SoCal	Courses

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Metal working & welding, automotive technician		Green Econ Scan	n/c
San Diego City				
	Air Conditioning, Heating & Advanced Refrigeration		GB SoCal	Associate Degree
EE	Electricity Lineman		Utilities Scan	Associate Degree
	Heating, Ventilation & Air Conditioning Apprenticeship		GB SoCal	Associate Degree
EE	Construction Electronic Systems Technician Option		GB SoCal	Associate Degree
MHA	Construction Trades - Electrical Trade Option		GB SoCal	Associate Degree
MHA			GB SoCal	Associate Degree
EE	Basic Refrigeration & Control Systems		GB SoCal	Certificate
EE	Electrical Control Systems		Utilities Scan	Certificate
EE	Electrical Systems and Power Transmission Lineman		Utilities Scan	Certificate
EE	Electrical Trade Option		Utilities Scan	Certificate
EE	Electricity		Utilities Scan	Certificate
EE	Electronic Systems Technician Option		Utilities Scan	Certificate
EE	Industrial Electrician Apprenticeship		Utilities Scan	Certificate
EE	SDG&E Apprenticeship		Utilities Scan	Certificate
MHA	Garden Design		GB SoCal	Certificate
	Heating, Ventilation & AC Refrigeration Systems Design		GB SoCal	Courses
EE	Stationary Engineering Hospital & Gen. Maintenance Tech.		GB SoCal	Courses
MHA	Related Courses		Solar Tech	Courses
RE	Engineering Technology		Infrastructure Scan	n/c
MHA	Mobile Solar Lab		COE Director	n/c
RE				n/c
San Diego Mesa				
MHA	Architecture: Survey		GB SoCal	Associate Degree
MHA	Landscape Architecture Technician		GB SoCal	Associate Degree
MHA	Architecture Technician		GB SoCal	Associate Degree
MHA	Construction Mgmt		GB SoCal	Associate Degree

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Architectural Technician		GB SoCal	Certificate
MHA	Architecture (Transfer)		GB SoCal	Certificate
MHA	Landscape Architecture Technician		GB SoCal	Certificate
MHA	Architecture: Transfer		GB SoCal	Courses
San Diego Miramar				
MHA	Heavy equipment operations, diesel technology		Green Econ Scan	n/c
San Joaquin Delta				
EE	Refrigeration Heating & Air Conditioning:		GB SoCal	Courses
EE	Refrigeration		GB SoCal	Courses
MHA	Building, welding, carpentry, horticulture, wastewater engineering		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Heavy Equipment Maintenance		Infrastructure Scan	n/c
MHA	Heavy Equipment Operation		Infrastructure Scan	n/c
San Jose City				
EE	HVAC/Commercial HVAC		Bay EE Scan	Courses
RE	PV Solar Installer		Bay Solar	Courses
EE	AC/Refrigeration		CV Green TOP Codes	n/c
EE	Building, welding, carpentry, horticulture, HVAC, machinist		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
San Mateo				
EE	Electronics Technology		Bay EE Scan	Associate Degree
EE	Electronics Technology		Bay EE Scan	Certificate
EE	EE Related Courses		Bay EE Scan	Courses
EE	AC/Refrigeration		CV Green TOP Codes	n/c
MHA	Building, welding, carpentry, plumbing		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Santa Ana				
MHA	Welding, automotive technician		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Heavy Equipment Maintenance		Infrastructure Scan	n/c
MHA	Heavy Equipment Operation		Infrastructure Scan	n/c

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Architectural/Civil Eng/Const Drafting & Design		GB SoCal	Associate Degree
Santa Barbara City				
MHA	Ecosystem restoration, horticulture, environmental studies		Green Econ Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
WE	Water Science		CV Green TOP Codes	n/c
Santa Monica				
RE	Solar Related Courses		LA Solar	(Planned)
RE	Solar Photovoltaic		LA Solar	Courses
Santa Rosa Jr.				
Architecture & Construction Technology:				
EE	Construction Mgmt		Bay EE Scan	Associate Degree
MHA	Surveying		Infrastructure Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Sustainable agriculture, welding diesel technology, GIS, environr		Green Econ Scan	n/c
Santiago Canyon				
EE	Apprenticeship: Industrial Electrical		GB SoCal	Associate Degree
EE	Power Lineman		Utilities Scan	Certificate
MHA	Public works, carpentry		Green Econ Scan	n/c
MHA	Surveying		Infrastructure Scan	n/c
MHA	Heavy Equipment Maintenance		Infrastructure Scan	n/c
MHA	Heavy Equipment Operation		Infrastructure Scan	n/c
MHA	Public Works		Infrastructure Scan	n/c
Water Distribution and Water Treatment				
WE	Options		COE Director	n/c
WE	Wastewater/Environmental Sanitation		COE Director	n/c
Shasta				
EE	Related Courses		N/Far N	Courses
MHA	Horticulture, forestry, automotive technician, natural resources, a		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
WE	Water/Wastewater Treatment		CV Green TOP Codes	n/c
Sierra				

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EWERE	Program Name	College	Source	Degree/Cert/Courses
	Photovoltaic System Installation & Design		N/Far N	Certificate
RE	Watershed Ecology Technician		N/Far N	Certificate
WE	Related Courses		N/Far N	Courses
EE	Horticulture, metalworking, GIS, CAD environmental		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Siskiyou				
EE	Related Courses		N/Far N	Courses
Skyline				
RE	PV Solar Installer		Bay Solar	Courses
Solano				
MHA	Horticulture, hazardous waste, wastewater engineering and oper		Green Econ Scan	n/c
WE	Water and Wastewater Technology		CV Green TOP Codes	n/c
Southern				
MHA	Architecture Technology		GB SoCal	Courses
MHA	Architecture		GB SoCal	Courses
Southwestern				
MHA	Construction Mgmt		GB SoCal	Associate Degree
MHA	Landscape Architecture		GB SoCal	Associate Degree
MHA	Landscape Occupations		GB SoCal	Associate Degree
MHA	Landscape Design		GB SoCal	Courses
EE	Environmental management, environmental technology		Green Econ Scan	n/c
MHA	Construction Inspection			Associate Degree/Certification
Taft				
MHA	Automotive specialist		Green Econ Scan	n/c
Ventura				
EE	Design Drafting: Electronic		Utilities Scan	Certificate
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
WE	Water Science		CV Green TOP Codes	n/c
MHA	Construction Tech - Const Mgmt Option		GB SoCal	Associate Degree

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Env. Horticulture: Landscape Construction & Management		GB SoCal	Associate Degree
MHA	Env. Horticulture: Landscape Architecture & City		GB SoCal	Associate Degree
MHA	Landscape Management		GB SoCal	Courses
Victor Valley				
EE	Building and construction trades, horticulture		Green Econ Scan	n/c
EE	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
EE	Construction Crafts Technology		Infrastructure Scan	n/c
MHA	Public Works		Infrastructure Scan	n/c
West Hills Coalinga				
MHA	Precision agriculture		Green Econ Scan	n/c
West Los Angeles				
EE	Power plant management and operations		Green Econ Scan	n/c
West Valley				
MHA	GIS		Green Econ Scan	n/c
Yuba				
RE	Alternative Fuels		N/Far N	Courses
RE	Hybrid Technology in Automotive		N/Far N	Courses
EE	Welding, horticulture, agriculture, industrial electricity, hazardous		Green Econ Scan	n/c

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$1,470,600	1,900	Installing large solar power system to produce electricity, supporting Governor's energy & environmental policies. Member of EPA Climate Leaders, a partnership to reduce greenhouse gas emissions.
\$336,000	200	Recycles over one million tons of recovered fiber, aluminum, plastics, non-ferrous metals, and glass annually.
\$93,600	15	Produces quality biodiesel: a clean, renewable fuel that reduces dependence on foreign oil, lowers the carbon intensity of transportation fuels and protects the environment.
\$63,162	121	ALC has been recognized by CA Integrated Waste Management Board for waste reduction and energy conservation since 2002. Recycles candy and uses it for animal feed and recycles materials; also received a \$200,000 rebate from PG E for energy savings.
\$72,864	46	Green Operations - recycling casings which lowers the cost per use and encourages re-use of materials.
\$288,000	400	Anritsu's focus on greening its business has resulted in product development & manufacturing process changes. Environmental awareness is a company-wide initiative. They intend to offer training on ways to promote energy saving, electricity conservation & efficiency, reduction of waste, and using healthier cleaning solutions.
\$1,983,200	2,200	Will manufacture machines that create cost-effective solar cells for semiconductor industry. Uses nanotechnology.
\$535,125	332	This project will retrain journey-level workers in California's construction trades to transition into the new green economy.
\$65,280	64	Responding to industry needs for a reduction in contaminants, Astro Pak developed a green "passivation" procedure that increases the natural resistance to rust inherent in stainless steel.
\$48,360	15	Civil engineering firm provides energy and environmental design services for green building.
\$74,700	166	Company recycles, distributes and sells batteries and energy panels.
\$194,400	180	Green Business Operations -- Installed solar power generating panels, uses energy efficient vending equipments, utilizes hybrid vehicles, and recycles. Last year, company replaced its entire lighting system with a high-intensity fluorescent lighting technology.
\$8,712	9	Electronic recycling
\$63,360	44	In order to compete in a competitive global market, Best Interiors is requiring employees to have a certificate in Leadership in Energy and Environmental Design (LEED).
\$74,880	160	Beutler is a HVAC contracting, engineering, and sheet metal fabricating company that provides construction services. Company designed and installs a flash evaporative pre-cooler device that reduces incoming air temperature to the heat exchanger, thereby increasing capacity and efficiency while reducing peak electrical demand.
\$681,720	299	Bloom's on-site power generation systems utilize an innovative fuel cell technology with roots in NASA's Mars program. The systems provide efficient energy generators with reduced operating costs and lower greenhouse gas emissions. By generating power where it is consumed, the systems offer increased electrical reliability and improved energy security while providing a path to energy independence.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$208,800	170	Company is committed to socially responsible food sourcing and business practices, and strong partnerships with respected conservation organizations. In 2002, sustainable seafood purchasing was implemented, followed by company policies pertaining to rBGH-free milk, antibiotic reduction in meats, and cage-free eggs. They also focus on using ingredients gathered locally and reducing the carbon footprint of all cafes, and feature organic meats and produce.
\$46,200	35	Remanufacturer of motor parts
\$874,800	900	Company will build new facility in San Jose, investing \$249 million utilizing green building technologies, in keeping with its strategy as a manufacturer of energy-efficient products.
\$74,100	50	Manufactures ethanol, a renewable fuel.
\$26,400	20	Sells and distributes bamboo building products - a renewable resource.
\$210,540	242	Company participates in clean tech through rigorous business practices to promote a clean and healthy environment in water and wastewater management via environmental projects to protect rivers, creek beds, and by assisting with litter and hazardous waste. Company goals for water conservation include helping customers find ways to create zero water landscaping & conserve water. Training will teach the latest conservation & environment guidelines on how to prevent pollution, promote sustainability, and how to enhance the natural environment.
\$252,600	225	Green Home Energy Retrofits training.
\$74,542	61	Customization & installation of solar systems.
\$1,196,216	1,160	This project will retrain journey-level workers in California's construction trades to transition into the new green economy.
\$182,540	40	Company retreads used tires with zero emissions.
\$18,252	13	Provides Leadership in Energy and Environmental Design (LEED) services that are critical in the green constructions industry.
\$484,700	100	Will be including solar photovoltaic rooftop installation training
\$75,600	56	In 2006 company established plan to become environmentally friendly, through use of wireless technology. Workers must use new technology to streamline construction processes, and use paperless mobile offices. Champion was named to a "Clean & Green" task force by City of Riverside to advise mayor's office on solar energy coinciding with Governor's Green Building Initiative for public buildings, which requires buildings to be 20% more energy efficient by 2015. Majority of company's business is with public buildings.
\$1,777,575	685	Primary product is cleaner-burning motor oil & gasoline. Replacement of equipment will reduce air emissions, increase energy efficiency etc.
\$113,178	48	Company implemented a Green Workforce Program dedicated to training and educating the community on the benefits and importance of going green, and has begun training and certifying individuals in Photovoltaic (PV) installation to fill various positions within the field of solar cell technology.
\$74,880	80	Company is an environmental consulting firm.
\$197,478	53	This contract is under the BUILD Program which is marketing towards the solar industry and is already placing workers with these companies.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$342,000	500	Implemented a Clean Fuel Expansion project to produce cleaner-burning gasoline and diesels. The process uses a hydro-cracking unit and an additional sulfur plant to covert 20,000 barrels per day of high-sulfur gas oil into ultra-low sulfur gasoline and diesel, using high pressures and a special catalyst to reduce sulfur compounds in fuel, leaving the product relatively sulfur-free.
\$28,350	30	Construction (Green Building training in Leadership In Energy and Environmental Design).
\$92,220	116	Portola Hotel and Spa offers a complete range of services including: lodging, meeting sites, conference facilities, and corporate and private social events. Company is in process of obtaining LEED certification that will enable it to market to environmentally conscious corporations throughout the world.
\$858,240	596	To become environmental-friendly production facility, company has invested \$3.5 million to create & launch new green technology equipment for cabinets & other products. The technology will give significant reduction in environmental impact of installing cabinets in homes, and allow company to compete with companies that outsource processes out-of-state due to environmental restrictions in California. The new process will reduce waste. Training plan covers Manufacturing Skills on practices and techniques for clean technology and environmental-friendly production.
\$482,670	655	Company produces natural & organic food chains, and is researching and monitoring products to protect against environmental contaminants. They validate temperature requirements & evaluate new biocides for washing & sanitizing products. Prevention of spoilage during storage & distribution exceeds Cal-OSHA mandated skills.
\$98,262	103	Company recognizes need to be environmentally and socially responsible. They will conduct a train-the-trainer program in green business practices, such as recycling, thereby decreasing waste and improving air quality.
\$34,452	33	Internationally accepted ISO specification for Environmental Management that establishes environmental policy for company. They will increase efficiency, use of energy and raw materials, resulting in less waste. Training will establish them as "green company."
\$548,496	293	Trainees will learn to predict and prevent defects, and improve energy efficiency and reduce emissions of greenhouse gasses and other pollutants.
\$1,135,728	956	Trainees will learn to predict and prevent defects, and improve energy efficiency and reduce emissions of greenhouse gasses and other pollutants.
\$39,000	130	Mission is to provide the best performing paints that preserve the environment, conserve energy & material resources, and promote health & safety. Company initiates policies to safeguard the health of employees and the public, as well as the quality of the environment. They recycle over 95% of the process waste stream from factories and voluntarily discontinued using latex paint additive ethylene glycol, to be replaced with more costly propylene glycol, a nontoxic substance. In 2000 they formed joint venture with Amazon Environmental to sell recycled late paint. Company constantly researches new ways to be environmentally-friendly, and reformulated their paint from oil-based to water based.
\$72,644	26	Training is for solar and energy efficient occupations.
\$30,976	16	EBTA must meet demand by developing new systems to improve architectural design, expand customer service, and decrease production costs. Ability to incorporate more technology into company processes and learn newly emerging "green" building, with Leadership in Energy and Environmental design techniques will help them remain competitive by designing and producing more sustainable design products in the future.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$160,512	66	Clean room assembly & ISO certification, hybrid cars
\$269,620	85	Hybrid vehicles
\$198,900	85	Company is shifting its focus to solar and other nanotechnology related industries. Production staff will be trained in skills related to solar products.
\$149,580	270	Digital loop control product introduced January 2007 & more new products will allow customers to modify or exchange software in products, rather than replace major hardware components, reducing waste.
\$74,360	52	Company produces recycled and green products.
\$221,400	246	Some of the company's services include environmental consulting, water supply studies, asbestos surveys and soil testing.
\$74,520	60	Manufactures and construction of utility scale solar power plants. The eSolar power plant utilizes small mirrors which track the sun with high precision and reflect the sunlight to a tower-mounted receiver, which boils water to create steam. This steam powers a traditional turbine and generator to produce solar electricity.
\$389,700	433	Takes part in the Leadership in Energy and Environmental Design (LEED), a national standard for green building design.
\$45,000	45	recycling (terminated)
\$497,250	1,275	This Company allows the customer to replace standard systems and materials with green ones in the event of a loss. In 2008 Governors Office recognized them as one of five firms to contribute to the green movement.
\$205,530	510	Company provides metal fabrication, stamping, and design support for solar powered products. New solar industry customers are now requiring Flextronics to train workers in green manufacturing practices.
\$74,520	115	Company is becoming certified compliant to environmental standards ISO 14001 for green manufacturing process improvements towards zero emissions, environmentally preferred purchasing of materials, and energy and water conservation methods. They are meeting increasing customer demand for environmentally-certified paper products using raw materials harvested from certified sources, controlled wood sources or post-consumer reclaimed sources.
\$341,250	130	New diesel engine emission standards will go into effect soon, and service /maintenance on new high tech engines and retro fitting older trucks to "cleaner & greener" machines is going to require increased training.
\$54,235	35	This training project is designed to build a workforce in the West Fresno for the solar industry.
\$1,678,383	3,368	Company uses natural gas in manufacturing process. Provide company training in safety, security, environmental waste & hazard waste.
\$1,155,600	1,605	Company uses natural gas in manufacturing process. Will provide training to increase efficiency; reduce waste; minimize fuel emissions; and use technology that reduces water, electricity & gas. One of 2 mfg plants (Modesto) uses solar power to cook SunChips. Company has "green team".
\$51,120	71	Company uses organic and all natural ingredients, and is committed to implementing environmentally conscious processes. They set goal to achieve certification from Leaders in Energy & Environmental Design, a nonprofit that expands sustainable building practices. Company will become more energy efficient and reduce waste and water in production processes, including packaging.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$221,400	300	General Atomics uses a gas turbine modular helium reactor in a power plant with quantum improvement in thermal efficiency, about 50%. This efficiency makes possible much lower power costs, without environment degradation & resource depletion of burning fossil fuels. Company harnesses nuclear power & provides systems for hazardous materials destruction, including supercritical water oxidation. Urban Maglev program will develop a magnetic levitation technology for a cost effective & environmentally friendly option for urban mass transportation. Also, company just received a grant for research into development of biofuels using microalgae. 1 acre of algae provides 150 times the oil that 1 acre of soybeans does. Researchers estimate 10 million acres of algae will supply all the transportation fuel needs for the US.
\$180,000	160	Company manufactures yogurt products. Its largest green initiative is recycling yogurt waste, cardboard, plastic, and aluminum foil. Company installed T-8 fluorescent bulbs, is redesigning its condensate system to reduce consumption of natural gas, and is working with suppliers to reduce amount of plastic in its containers.
\$64,480	40	A significant portion of the business activity involves collecting used electronic equipment, moving it and recycling what can be reused.
\$29,920	17	This company provides mold, asbestos, and additional indoor environmental remediation services.
\$235,040	80	Green certified business provides green printing and paper products, reusable modular systems and ergonomically correct products.
\$187,200	80	GSB is an Alameda County "Green Certified Business". Its 19,800 square foot Oakland facility is equipped with rooftop solar energy production units. GSB is known as a "B Corporations". "B Corporation" companies must meet strict comprehensive, transparent social and environmental standards, and amend their governing documents to reflect socially responsible values.
\$58,240	64	Manufactures vacuum components for science and industry - valves, baffles and chambers primarily for aerospace and solar industries.
\$20,280	13	Company specializes in electronics repair and refurbishing. They focus on quality and use of sustainable material, enforcing a rigorous e-waste procedure to achieve Tier 1 Supplier certification. ETP training will help them pursue higher level environmental certifications.
\$20,196	27	Firm focuses on environmental design and green building.
\$200,700	300	Company designs and distributes high-end storage devices and software. Offers Conserve IT services to reduce data center energy consumption, and a "spin-down" process that reduces data storage space and energy consumption. Has won several Green Awards.
\$31,200	20	Produces nitrogen generators (pure) that, consume little energy.
\$235,125	275	Company provides information technology hardware, software, service products, and e-business solutions. Proposed curriculum includes Green Storage, IBM Solutions for Green IT, Lean and Green: System z, SCM Green Sustainable Offering and Tools, and IBM System p and Project Big Green - Competitive Update.
\$360,000	160	Company is engaged in partnerships with the U.S. Environmental Protection Agency and has a long-standing policy of using no wood from endangered forests and supports mutual recognition of forest certification standards.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$74,736	173	This company manufactures and designs power management semiconductors. The company's power management technology aims to make electricity a better "fuel. This will enable manufacturers of electrical and electronic devices to create products with compact features and prolonged battery life at a lower cost.
\$742,446	489	Demand for cleaner burning petroleum products is creating demand for Irwin's services at their refineries. New regulations require construction of new processing units & ongoing maintenance, creating more opportunities for Irwin. Recent contract to install cogeneration plants for Southern California Edison.
\$28,080	12	Company provides photovoltaic solar systems and energy conservation upgrades. Training will expand employees' knowledge in solar electrical grounding and bounding, solar power, and other topics.
\$345,600	240	Manufactures simiconductor devices used to create chips, the integrated circuits that are present in everday electronic devices. To reduce its carbon footprint, it has improved the performance and energy efficiency of air, water, and production equipment systems, overhauling its fabrication facility operations to reduce the consumption of water, compressed air, and electricity throughout the plant.
\$321,930	365	Company is focusing training efforts on increasing efficiencies and expanding green-manufacturing processes, as well as quality and customer service. Workers will be trained in green manufacturing improvements and other skills.
\$159,120	136	Company is implementing solar and hybrid energy applications.
\$96,408	36	Company manufactures packaging materials for various consumer products, and is working to reduce its carbon footprint. Its in-house recycling program reduces amount of waste that is sent to the landfill, and all of its electrical energy comes from wind power.
\$504,000	350	KSI is involved with all the producers (Chevron, Shell, Aera Energy, Berry Petroleum) in clean technology. Company works on many projects involving water treatment and reclamation. KSI does most of the maintenance at Chevron's station 36 water plant, which provides 60,000 barrels of reclaimed production water per day for agricultural use.
\$35,828	26	Small label printer uses only paper materials that come from sustainable forests, that are managed responsibly.
\$69,300	70	For the past 10 years this company has been in the research and development process for the High Pressure Hydrogen Car and is now ready to transfer to commercial production.
\$436,748	454	Curriculum meets client needs for trained janitors that can respond to the need of property owners and managers to decrease energy costs, and to help create and promote safer, more secure, greener, and healthier environments. They will keep buildings free from pollutants and respond to new green cleaning initiatives.
\$136,368	100	Limoneira is an agribusiness that is also involved in community development and land stewardship. Five acres of its land is used to convert green waste to mulch that is spread in its orchards to improve the soil. It has a power generating system to reduce the company's electricity cost by one-third, and has added solar panels to help power water pumps.
\$176,676	293	Company's core capabilities are in the design, development, systems integration, production, and sustainment of advanced military aircraft and related technologies. It seeks new ways to reduce energy usage and lower greenhouse gas emissions, and is a member of the EPA's Green Power Partnership and is one of the top green power purchasers in the country.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$401,004	141	Company fabricates towers for wind generation and recently completed support structures in solar fields. They are taking action to reduce carbon footprint and integrate green business practices into operations via several new software packages to support paperless operating system.
\$252,525	259	The architecture profession is rapidly changing to include more green developments and sustainable buildings. LPA needs to retrain architects and designers as certified Leadership in Energy and Environmental Design standards. They are introducing new system called the Building Information Model that allows comprehensive method to meet new green standards efficiently.
\$108,675	172	Training is specifically designed and necessary for workers to become Leadership in Energy and Environmental Design (LEED) certified.
\$30,420	13	Company is a manufacturer of environmental parts that are used in subsurface testing, groundwater remediation, and environmental cleanup.
\$74,100	38	Company promotes clean tech by using recycled plastic and using a Cogen power plant which runs on natural gas. Their R&D department researches plastic bottles and other plastic materials, including recycling processes.
\$132,288	48	Company designs and provides customized memory chips and components using sustainable recycling. They disassemble and recycle used computer components, housings, chips, hard drives and other items. In an effort to become "Green Certified" company has begun to refurbish iPod units and is giving training in green technology.
\$19,500	30	Sustainable grape farming
\$92,610	147	Company promotes green business practices such as company-wide recycling of paper and metal products, energy saving lighting and equipment, and digital imaging instead of conventional x-ray.
\$1,277,100	330	Company uses steam & compressed air in manufacturing process.
\$8,112	13	Architectural designers for clean technology.
\$58,176	101	Musco Olives produces foodservice items and ripe olives for the retail market. Customers are demanding both environmental sustainability and food safety/security. Forklifts are being replaced with units that satisfy improved emission standards. Hazardous materials training includes instruction in waste management, spill prevention, and the satisfaction of environmental standard for the protection of air, land and water.
\$1,998,000	1,500	Committed to environment, health & safety excellence and meeting or exceeding regulatory requirements for hazardous substances. Programs have been implemented to reduce hazardous substances, chemicals and/or emissions. All factories are ISO 14001 & OHSAS
\$780,000	1,500	National's power efficient circuits are posed to meet the future energy needs to products across an array of industries including medical, security, video distribution/ transmission, and personal mobile devices. National also has entered into the photovoltaic market with new technology designed to increase the effectiveness of solar panels under variable light conditions.
\$173,160	130	Founded as a farm & organic raspberry stand, company has grown to manufacture and sell organic produce on 40,000 acres. They promote sustainable agriculture, protecting the ecosystem health; run vehicles on biodiesel; use recycled cardboard for salad cartons; avoid using chemicals; conserve petroleum; save trees, landfill space, kilowatts of energy and water. in 2003 owners received Global USA's Corporate Environmental Leadership award.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$243,000	250	Carbon-neutral production efforts involve reducing emissions, purchasing carbon emission offsets, and using hybrid or electric production vehicles whenever possible. Also recycles non-toxic cleaning products and low emission paints, sealants, and lacquers.
\$48,600	108	Provides technical support and sales of pre-owned & refurbished networking equipment.
\$6,010,200	2,835	New technologies ensure cars are environmentally safe, impacting materials such as sealants, plastics, & paints. NUMMI collects & recycles pallets & wood scraps, and Filtercake recycled for use in cement. Waste Reduction Awards Program Winner every year since 1993 by Integrated Waste Mgmt Board. Also conserves energy & promotes alternative transportation through Spare the Air program, and partners with conservation groups on environmental projects.
\$119,360	40	Curriculum developers will work with employers from solar industry to create placement opportunities for solar graduates as Installers.
\$449,820	210	Company was certified in June 2008 by Forest Stewardship Council as responsible manager of forests. They produce paper and pulp products.
\$21,060	27	Company is leading manufacturer of organic mattresses & bedding, and is full-circle environmental company committed to offering retailers the purest organic products. They use certified, organic raw materials, and cotton batting is premium grade virgin cotton sanitized with non-chemical ozone process. Premium Eco-Wool is humanely shorn from hormone free, homeopathically raised sheep grazing in pesticide-free meadows. Natural rubber latex cores supplied by only US source for pure 100% natural Talalay-processed rubber, derived from milk of the rubber tree.
\$74,100	19	This company is a full service operations and maintenance provider to the wind industry.
\$194,400	200	Owens is best known for it PNK Fiberglass insulation. It's a product made from sand and recycled glass. The products Owens Corning sells each year are also responsible for the prevention of more than 1 billion tons of greenhouse gas emissions.
\$150,072	74	Company designs, engineers, manufactures, assembles, and tests the capital equipment used by companies in the solar industry.
\$216,000	150	Company manufactures and distributes low-carbon ethanol, and is reducing transportation cost by selling locally, with fewer harmful atmospheric emissions.
\$74,760	89	Company operates resort hotels and golf links, provides meeting and event facilities, luxury accomodations, activities and resort amenities. It is a certified green business through the Monterey Bay Area Green Business Program, exceeding program standards for conserving resources, preventing pollution, and minimizing waste.
\$490,050	726	Company has been proactive in "going green", by supporting research and engine usage that is environmentally-friendly. They train employees when moving from diesel fuel to compressed natural gas. All company operations exceed environment standards in recycling of waste, water, and oil. They invested in 3 new buildings that are energy efficient and is updating existing buildings to be more green.
\$199,335	97	Company is a paper, food, and janitorial supplies distributor to restaurants, wholesalers, food processors, caterers, and bakeries. It is adding eco-friendly products (degradable, biodegradable, and/or compostable) to its product supply inventory, and wants its employees trained and knowledgable about these green products.
\$129,600	180	Training will eliminate waste in installation processes and green production processes will be introduced for first time.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$514,368	752	Green Business Operations with a recycling program for waste that is a result of production at the plants and the company has implemented a lighting project that will reduce electrical usage while increasing lighting in the factories.
\$197,117	347	Foundation was created through agreement with Green Plumbers of Australia to bring successful water and energy conservation program to America. Program is designed to protect natural resources through plumbing efficiencies improved technologies to reduce water demand, curtail greenhouse gas emissions, and limit global warming. Distinct methods of repair and installation are required, and training will teach installers new techniques for working with green plumbing materials. Participating employers will be able to control costs by reducing on the job scrap and improve efficiency.
\$298,800	200	Supplies key products for environmental science & other sciences. Company provides solutions for cleaner, more efficient fuels, using columns & new technologies for renewable fuel sources. They have been part of all the major research into green fuels, testing biodiesel and bioethanol. Phenomenex published a biofuels analysis guide May 2, 2008.
\$131,760	75	Company investing in capacity to produce specialty glass for photovoltaic market or solar panel industry. By expanding its manufacturing capacity of transparent conducting oxide coating, they hope to minimize the total carbon footprint of solar panel manufacturing process. They will use new technology to dramatically reduce the carbon footprint of end use products in homes and buildings.
\$643,968	516	Company processes specialty gases (produced when air is purified, compressed, & condensed), high-performance coatings, and acetylene (produced as by-products of chemical production or recovered from natural gas). Praxair's direct emissions of air, water & solid waste are low due to manufacturing process using a renewable resource-air-as an input and cryogenic & physical technologies to transform into its component parts. Company captures & refines gas by-products with minimal environmental effect. About 2/3 of annual revenue is derived from applications which help their customers: reduce environmental footprints, improve energy efficiency, and increase yield of production-thus decreasing use of raw materials.
\$74,880	40	Expanding into solar and nanotechnology and integrating green business solutions into its operations.
\$99,144	102	Green Business Operations- recycles four tons of paper per day; printing multiple projects on large sheets of paper; changing from conventional inks with soy based; upgrading saber cutter to minimize waste, installing efficient lighting; upgrading to low energy use compressors.
\$18,720	12	Company designs, sells, services and installs solar electric, water, pool, and wind energy systems for residential, commercial, and industrial applications.
\$481,500	214	Provides biological studies and environmental consulting.
\$1,804,000	4,000	Company uses fan systems to manufacture electronics. Provided training in cleanroom and hazmat procedures. Company uses processes that reduce waste. Company has initiated a Carbon Footprint program to reduce emission of gasses.
\$15,600	10	Company provides recycling service to businesses and people in northern California. They recycle paper, plastic, glass and aluminum.
\$460,080	120	The purpose of this program is to prepare new-hire trainees to obtain entry level green collar jobs in the bay area such as: photovoltaic installer, solar thermal installer, sales rep, energy auditors, water, air, soil technicians, and hazmat techs.
\$494,856	237	Uses 100% recyclable materials throughout its product line and they use non-heavy metal colors.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$159,840	120	Has a GTI initiative to promote saving energy, reducing waste, and using green cleaning solution throughout the company.
\$495,510	772	Named one of the Global 100's most sustainable Corporations in the world by the World Economic Forum the past three years. RAC is committed to lowering the carbon foot print of its customers and providing ways to which it products and services can help companies reduce, reuse, and recycle resources. They offer 100% energy star compliant products; end-of-life management and custom solutions.
\$74,669	86	Organization dedicated to providing industry skills training and to securing high-quality job opportunities for its members. Journey level electricians are currently faced with understanding new national building codes and green practices, and implementing green solutions in work environments. Green training topics such as Solar Panel Installation and Advanced Lingting Controls have been added to update member skills.
\$870,102	369	Provides industrial waste management, oil recycling, & parts cleaning.
\$184,450	200	Provides electrical industry skills training to its members, as well as expanded retraining in commercial, business and computer skills, including green training topics such as solar panel installation and advanced lighting controls (an important new green training for electricians working in large buildings).
\$156,870	105	Company is the world's leading supplier of water and waste water treatment solutions, and they design and manufacture water disinfection products to protect water resources. Training will help to reduce waste and improve efficiency.
\$138,050	251	Practices "Zero Waste" -- Shaw diverts approximately 11,430,000 pounds of recyclables from disposal to landfill per year, resulting in an estimated \$1,850,860 in savings through waste reduction, reuse, and reduced landfill costs.
\$285,240	180	Training includes green business practices necessary to meet commercial interest and demand to develop, retrofit, and maintain greener buildings.
\$379,225	197	Major core employer is Nanosolar, Inc. They use new solar cell that generates energy & uses nanotechnology - it's cost efficient & uses green power. 197 Nanosolar trainees @ \$1925 cost.
\$394,134	93	Small company is in research and development phases for the manufacturer of thin-film photovoltaic solar cells and modules that convert the light from the sun into energy.
\$253,800	300	Company is changing to a digital process of marketing materials for theatrical release. This change will replace the old method of using posters and press kits.
\$123,200	200	The industry is shifting to green building materials that require distinct methods of installation.
\$124,978	125	Providing training on how to eliminate the west of potentially polluting painting and coating materials, which will increase journeymen's awareness of green issues to improve applications skills.
\$201,500	250	Origanization provides training for apprentices and journeymen in the roofing and waterproofing construction industry. There is a shortage of roofers and waterprooferers trained in energy efficient green building technologies and procedures. In response to the federal economic stimulus plan to create green jobs, the organization needs to provide workers with skills on energy efficient dwellings.
\$281,160	142	Designs and manufacturers lightweight, aluminum-lined composite-wrapped, high pressure cylinders for alternative fuel vehicles.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$538,560	374	Clean Construction processes; uses recycled materials.
\$74,592	74	To reduce energy consumption & comply w/new advances in "Green" building technologies, most trainees will receive training in Leadership in Energy & Environmental Design for Green Building standards.
\$1,496,664	2,028	Sun is committed to designing & delivering eco-friendly processors, systems, programs & services that help businesses reduce power consumption, environmental impact & energy costs.
\$99,000	100	One employer, Senz-It Inc. produces applications for the emerging environmental air quality and food safety sectors. (6 trainees approved for \$5940 at this company.)
\$283,500	210	Environmental Consulting Services
\$75,500	125	Company is a construction and architectural engineering firm that provides civil engineering, construction, surveying, architectural, and environmental services. Clients demand that the company provide green technology architectural and engineering services. In last three years, company has cross-trained staff for positions in its Environmental Compliance Consulting business.
\$323,910	295	TAMCO is only small steel mill in California and recycles scrap metal & mills it into reinforcing bar for construction industry. They use processed heat & compressed air.
\$74,844	63	New green requirements for sustainable design are quickly becoming the "construction" industry standards.
\$95,040	44	Techmer designs and manufactures high performance polymer additives and plastic colorants. Company received the Los Angeles County "2008 Smart Business Recycling Award" for significantly reduced waste disposal. Company also exercises strict controls over emission of plastic pellets during production, and recycles all of its plastic cardboard, metal, and office-paper waste.
\$115,200	40	Manufactures and distributes energy efficient fixtures.
\$944,136	423	Company has modernized their plant to produce higher yields, and spent \$3 million on advanced technology, that improves product yield and reduces energy consumption. Training is required to utilize new equipment.
\$182,196	241	Produce photomasks, used as components in solar technology and other products.
\$99,360	138	Company is committed to the reduction of waste, hazardous substances, and the impact of its operations on the environment. They are a Sony Green Partner who received many awards, and have been certified in ISO14001 for green business practices. They have started many Voluntary Plans to lessen global warming, and are trying to achieve a 25% reduction in carbon emissions and 10% reduction in PFCs by 2010.
\$249,282	339	Turner provides construction and project management services to a cross-section of industries. Company states is the largest builder of green buildings in the nation. Training classes are designed for workers to become LEED accredited. Committed to reducing its greenhouse gas emissions, production waste, and electricity consumption.
\$294,066	527	Manufacturing lead-free products that meet hazardous material elimination requirements and the company manufacturing plants and facilities have implemented energy conservation measures that have resulted in an annual saving of 26 million kilowatt hours.
\$211,200	64	leader in dairy waste handling, allows dairies to comply with environmental regulations & protect communities.

Employment Training Panel Clean/Green Technology Contracts Approved July 1, 2006 to Present

Approved Amount	# to Train	Clean/Green Description
\$110,880	80	Company is a distribution operation that supplies national, private-label and signature brand items to restaurants, schools, universities, government facilities, hotels, healthcare institutions and sport stadiums. In September 2007, it was certified by the Bay Area Green Business Program to be the first food service company in the nation to achieve Green Business Certification.
\$30,360	23	Provides environmental planning and consulting services. Currently working w/ports of LA & Long Beach to implement Clean Air Action Plan; and LA County on Alternative Technologies for Solid Waste Projects. Involved with AB32 - Greenhouse Gas Emissions work through goods movement projects, including METRO.
\$1,334,965	1,221	A new system called Package Flow Technology has been enhanced to include Telemetric, which analyzes data in delivery trucks to slash energy consumption, improve efficiency, and increase customer satisfaction. In California, this will help UPS maintain momentum towards going green.
\$161,200	62	leader in dairy waste handling, allows dairies to comply with environmental regulations & protect communities
\$198,450	147	Company is expanding their organic food lines, and their "green initiative" by eliminating non-biodegradable packaging.
\$15,600	10	Develops, designs and produces drive systems and related components for electric, hybrid-electric, and fuel cell powered vehicles.
\$57,720	37	Company is implementing Leadership in Energy & Environmental Design program to promote integrated, green, whole-building design practices.
\$12,480	8	This small business develops, manufactures, and markets advanced power electronic solutions that support green technology LEDs and laser diodes.
\$164,736	88	Certified organic handler distributes organic produce.
\$15,840	12	Recycle hazardous waste materials
\$815,652	278	Produces more efficient glass products such as "Low E" and other green products for better insulation, and to reduce heating and cooling costs.
\$405,000	750	Green Business Operations --Has partnered with Dell to redefine the way businesses approach environmental leadership with the "Plant a Forest for Me" initiative, a program that enables organizations worldwide to facilitate the planting of millions of trees in sustainably managed reforestation projects to offset a portion of their overall carbon footprint.
\$43,500	29	Provides intergraded distribution and sales of air purifiers, water filtration devices, digital bidets, megasonic cleaning device, and other well-being home appliances.
\$332,750	250	Company is focused on green technology innovation and developed reusable paper. They invented paper that can be printed on, then reused the next day when paper turns blank, resulting in reduced waste and less environmental impact.
\$70,200	30	Company designs and tests solar systems.
\$58,427,834	53,826	

R O C P C O U R S E S

Rapid-Start ♦ Green-Focused



CAREER TECHNICAL EDUCATION

A LIST OF SECONDARY COURSES GOING GREEN

(Updated June 17, 2009)

California Department of Education

Regional Occupational Centers/Programs & Workforce Development Unit

RAPID-START

CAREER TECHNICAL EDUCATION JOB PREPARATION PROGRAMS Through California Secondary Schools' REGIONAL OCCUPATIONAL PROGRAMS and REGIONAL OCCUPATIONAL CENTERS

“Leading job training for high school students for a new green economy that promotes energy and environmental sustainability”

Data was gathered from a survey of the Regional Occupational Programs and Regional Occupational Centers in California, resulting in the following charts:

Chart 1: ROCP capstone courses that have a “green focus” (highlighted in green), and are articulated with an SB 70 grant to a local community college in all 15 industry sectors.

Chart 2: ROCP courses in the following high-demand industry sectors that can easily and rapidly be adapted with green-focused units of instruction: Building Trades/Construction; Manufacturing; Transportation; Energy/Utilities; Engineering; Health.

The Regional Occupational Centers and Programs Model:

- Incorporates and integrates State-Board adopted academic and career standards into the curriculum.
 - Targets secondary juniors and seniors who will be entering the workforce or college full-or-part-time after high school.
 - Requires business and industry input and approval of curriculum.
 - Utilizes state-certified CTE instructors with business and industry experience.
 - Provides work-based internships non-paid and employment as part of the instructional program.
 - Courses are the capstone, articulated courses with community colleges in many academies.*
 - Meets job market demand by regions, cost-effectively operates programs on a regional basis, including every high school in CA.
 - The most flexible secondary CTE program to quickly respond to economic changes and needs.
 - Serves as pre-apprenticeship programs leading to entry into DAS-approved apprenticeship programs where articulated.
 - Helps prevent high school dropouts and improves student attendance through real, rigorous and relevant instruction.
- (*Academy grants will be awarded in June 2009.)

**FUNDING NEEDS FOR STRENGTHENING
CAREER TECHNICAL PROGRAMS IN THE SECONDARY ROCPs:**

1. CTE teacher professional development institutes for training and certification
2. Curriculum development certified by the CDE. Units of green technology to be developed and integrated into existing courses of study.
3. Instructional materials and supplies per industry standards
4. Instructional equipment to teach the new technology per industry standards
5. Curriculum articulation
6. Job placement assistance for successful completers
7. Evaluation component
8. Data gathering component

CHART 1

ROCP capstone courses that have a “green focus” (highlighted in Green) and are articulated with an SB 70 grant to a local community college in all 15 industry sectors

ROCPs and Schools Participating in SB 70

Community College	140-Community College Collaborative Grants			141-Community College Supplemental Grants			142-Community College Workforce Innovation Partnership (WIP) Grants			Green Grants
	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	
Allan Hancock College	2	Santa Barbara County ROP - North Santa Lucia ROP	Hospitality, Tourism, and Recreation	2	Santa Barbara County ROP - North Santa Lucia ROP	Hospitality, Tourism, and Recreation	-	-	-	
American River College	1	Sacramento County ROP	Building Trades and Construction; Energy and Utilities; Manufacturing and Product Development; Transportation	1	Sacramento County ROP	Building Trades and Construction; Energy and Utilities; Manufacturing and Product Development; Transportation	1	Sacramento County ROP	Building Trades and Construction	
Antelope Valley College	1	Antelope Valley ROP	Public Safety and IT	-	-	-	-	-	-	
Barstow College	1	San Bernardino County ROP	All Sectors	1	San Bernardino County ROP	All Sectors	1	San Bernardino County ROP	Transportation	
Butte College	1	Butte County ROP	Building Trades and Construction; Engineering and Design	1	Butte County ROP	Building Trades and Construction; Engineering and Design	1	Butte County ROP	All Sectors	142
Cabrillo College	1	Santa Cruz County ROP	All Sectors	1	Santa Cruz County ROP	All Sectors	1	Santa Cruz County ROP	Building Trades and Construction	140 142
Chabot-Las Positas District	2	Eden Area ROP, Tri-Valley ROP	Arts, Media and Entertainment; Energy and Utilities; Finance and Business; Health Care and Medical Technology	2	Eden Area ROP, Tri-Valley ROP	Arts, Media and Entertainment; Energy and Utilities; Finance and Business; Health Care and Medical Technology	2	Eden Area ROP, Tri-Valley ROP	All Sectors / Health and Environmental/ Related Technologies	

Community College	140-Community College Collaborative Grants			141-Community College Supplemental Grants			142-Community College Workforce Innovation Partnership (WIP) Grants			Green Grants
	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	
Chaffey College	2	Baldy View ROP, San Bernardino County ROP	Energy and Utilities; Engineering and Design; Manufacturing and Product Development Transportation	2	Baldy View ROP, San Bernardino County ROP	Energy and Utilities; Engineering and Design; Manufacturing and Product Development Transportation	2	Baldy View ROP, San Bernardino County ROP	Engineering and Design	
Citrus College	1	East San Gabriel Valley ROP	Energy and Utilities	-	-	-	-	-	-	
Coast District	2	Capistrano-Laguna Beach ROP, Coastline ROP	Energy and Utilities; Engineering and Design; Health Science and Medical Technology; Manufacturing and Product Development Transportation	-	-	-	-	-	-	
Contra Costa College	1	Contra Costa County ROP	Building Trades and Construction; Education, Child Development and Family Services; Engineering and Design; Finance and Business; Health Science and Medical Technology; Information Technology	1	Contra Costa County ROP	Education, Child Development, and Family Services	1	Contra Costa County ROP	All Sectors	142
El Camino College	1	Compton USD ROP	All Sectors	1	Compton USD ROP	All Sectors	1	Compton USD ROP	Manufacturing and Product Development	

Community College	140-Community College Collaborative Grants			141-Community College Supplemental Grants			142-Community College Workforce Innovation Partnership (WIP) Grants			Green Grants
	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	
Feather River College	2	Lassen County ROP, Plumas County ROP	Agriculture and Natural Resources; Energy and Utilities; Finance and Business; Health Science and Medical Technology; Hospitality, Tourism, and Recreation;	2	Lassen County ROP, Plumas County ROP	Agriculture and Natural Resources Marketing, Sales, and Services	-	-	-	
Folsom Lake College	1	Central Sierra ROP	Agriculture and Natural Resources	1	Central Sierra ROP	Education, Child Development, and Family Services; Energy and Utilities	1	Central Sierra ROP	Health Science and Medical Technology	
Foothill-De Anza District	2	Metro Ed District, North Santa Clara ROP	Arts, Media, and Entertainment;Energy and Utilities;Finance and Business;Health Science and Medical Technology;Information Technology;Marketing, Sales, and Services	2	Metro Ed District, North Santa Clara ROP	All Sectors	2	Metro Ed District, North Santa Clara ROP	All Sectors	
Grossmont-Cuyamaca District	1	San Diego County ROP	Health Science and Medical Technology	1	San Diego County ROP	Health Science and Medical Technology	1	San Diego County ROP	Health Science and Medical Technology	
Hartnell College	1	Mission Trails ROP	All Sectors	-	-	-	-	-	-	

Community College	140-Community College Collaborative Grants			141-Community College Supplemental Grants			142-Community College Workforce Innovation Partnership (WIP) Grants			Green Grants
	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	
Imperial Valley College	2	Imperial Valley ROP, Riverside County ROP	Energy and Utilities; Finance and Business; Health Science and Medical Technology; Hospitality, Tourism, and Recreation; Public Services	2	Imperial Valley ROP, Riverside County ROP	Energy and Utilities; Health Science and Medical Technology; Public Services	-	-	-	
Kern District	4	Kern County ROP, Kern High School District ROC, North Kern County ROP, West Side ROP	Energy and Utilities	5	Inyo County ROP, Kern County ROP, Kern High School District ROC, North Kern County ROP, West Side ROP	Energy and Utilities	5	Inyo County ROP, Kern County ROP, Kern High School District ROC, North Kern County ROP, West Side ROP	Energy and Utilities	142
Long Beach College	1	Long Beach Unified School District ROP	Building Trades and Construction	-	-		-	-	-	
Los Angeles District	1	East San Gabriel Valley ROP	Arts, Media, and Entertainment; Building Trades and Construction; Engineering and Design; Health Science and Medical Technology; Transportation	1	East San Gabriel Valley ROP	All Sectors	1	East San Gabriel Valley ROP	Health Science and Medical Technology	

Community College	140-Community College Collaborative Grants			141-Community College Supplemental Grants			142-Community College Workforce Innovation Partnership (WIP) Grants			Green Grants
	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	
L.A.-Harbor	1	Los Angeles Unified School District ROP	Arts, Media, and Entertainment;Building Trades and Construction;Health Science and Medical Technology;Hospitality, Tourism, and Recreation;Information Technology;Transportation	1	Los Angeles Unified School District ROP	All Sectors	1	Los Angeles Unified School District ROP	Manufacturing and Product Development	
L.A. Mission College	1	Los Angeles County ROP	Arts, Media, and Entertainment; Energy and Utilities; Hospitality, Tourism, and Recreation	2	Los Angeles County ROP	All Sectors	1	Los Angeles County ROP	Energy and Utilities	141
L.A. Trade - Tech. College	-	-	-	-	-	-	-	-	-	
Mendocino College	2	Humboldt County ROP, Mendocino County ROP	Agriculture and Natural Resources; Building Trades and Construction; Health Science and Medical Technology; Hospitality, Tourism, and Recreation; Transportation	-	-	-	-	-	-	140
Mira Costa College	1	San Diego County ROP	Health Science and Medical Technology	-	-	-	-	-	-	

Community College	140-Community College Collaborative Grants			141-Community College Supplemental Grants			142-Community College Workforce Innovation Partnership (WIP) Grants			Green Grants
	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	
Mt. San Jacinto College	1	Riverside County ROP	Arts, Media and Entertainment; Engineering and Design; Health Science and Medical Technology; Hospitality, Tourism, and Recreation; Information Technology	-	-	-	-	-	-	140
Napa Valley	1	Napa County ROP	Agriculture and Natural Resources; Building Trades and Construction; Energy and Utilities; Hospitality, Tourism, and Recreation	1	Napa County ROP	Agriculture and Natural Resources, Building Trades and Construction, Energy and Utilities	2	Napa County ROP	Agriculture and Natural Resources, Building Trades and Construction, Energy and Utilities, Hospitality, Tourism, and Recreation	140141142
North Orange District	1	Central County ROP	Energy and Utilities; Education; Engineering and Design; Health Science; Information Technology Manufacturing	-	-	-	-	-	-	
Ohlone College	1	Metro Ed District	Information Technology	2	Metro Ed District, Mission Valley ROP	All Sectors	2	Metro Ed District, Mission Valley ROP	Information Technology	141

Community College	140-Community College Collaborative Grants			141-Community College Supplemental Grants			142-Community College Workforce Innovation Partnership (WIP) Grants			Green Grants
	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	
Pasadena City College	1	Los Angeles County ROP	Arts, Media and Entertainment; Energy and Utilities; Engineering and Design; Health Science and Medical Technology; Hospitality, Tourism, and Recreation	1	Los Angeles County ROP	Arts, Media and Entertainment, Energy and Utilities, Engineering and Design, Health Science and Medical Technology, Hospitality, Tourism, and Recreation	1	Los Angeles County ROP	Health Science and Medical Technology	140 142
Peralta District	1	Oakland/Alameda ROP	Arts, Media and Entertainment	1	Oakland/Alameda ROP	-	-	-	-	
Rancho Santiago District	1	Central County ROP	Arts, Media, and Entertainment; Manufacturing and Product Development; Transportation	1	Central County ROP	Arts, Media, and Entertainment, Manufacturing and Product Development, Transportation	1	Central County ROP	Energy and Utilities	140 142
Riverside District	1	Riverside County ROP	Engineering and Design; Health Science and Medical Technology; Transportation	1	Riverside County ROP	Engineering and Design	-	-	-	
Sacramento City College	1	Sacramento County ROP	Building Trades and Construction	-	-	-	-	-	-	140
San Bernardino Valley College	2	Colton-Redlands-Yucaipa ROP, San Bernardino County ROP	Energy and Utilities;Engineering and Design;Manufacturing and Product Development; Transportation	2	Colton-Redlands-Yucaipa ROP, San Bernardino County ROP	Energy and Utilities, Engineering and Design, Manufacturing and Product Development, Transportation	2	Colton-Redlands-Yucaipa ROP, San Bernardino County ROP	Engineering and Design	

Community College	140-Community College Collaborative Grants			141-Community College Supplemental Grants			142-Community College Workforce Innovation Partnership (WIP) Grants			Green Grants
	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	
San Diego District	1	San Diego County ROP	Health Science and Medical Technology; Information Technology; Manufacturing and Product Development; Transportation	1	San Diego County ROP	All Sectors	1	San Diego ROP	Building Trades and Construction, Energy and Utilities, Engineering and Design, Manufacturing & Product Development, and Transportation.	142
San Francisco, City College of	2	San Francisco County ROP	All Sectors	2	San Francisco County ROP	All Sectors	-	-	-	140
San Mateo, College of	1	San Mateo County ROP	Health Science and Medical Technology	-	-	-	-	-	-	
Santa Barbara City College	1	Santa Barbara County ROP	Health Science and Medical Technology	1	Santa Barbara County ROP	Health Science and Medical Technology	1	Santa Barbara County ROP	Health Science and Medical Technology	
Santa Clarita District	1	Hart District ROP	Arts, Media, and Entertainment; Building Trades and Construction; Energy and Utilities; Hospitality, Tourism, and Recreation; Manufacturing and Product Development; Transportation	-	-	-	-	-	-	

Community College	140-Community College Collaborative Grants			141-Community College Supplemental Grants			142-Community College Workforce Innovation Partnership (WIP) Grants			Green Grants
	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	
Santa Monica City College	1	Los Angeles County ROP	Arts, Media, and Entertainment; Building Trades and Construction; Health Science and Medical Technology; Hospitality, Tourism, and Recreation; Marketing, Sales, and Services; Transportation	-	-	-	1	Los Angeles County ROP	Transportation	140 142
Sequoias, College of the	1	Kings County ROP, Tulare County Organization for Vocational Education	Agriculture and Natural Resources; Education, Child Development, and Family Services; Energy and Utilities; Finance and Business; Health Science and Medical Technology; Manufacturing and Product Development	-	-	-	-	-	-	
Shasta College	2	Shasta-Trinity ROP, Tehama ROP	Energy and Utilities	2	Shasta-Trinity ROP, Tehama ROP	All Sectors	2	Shasta-Trinity ROP, Tehama ROP	Energy and Utilities	140 141 142
Sierra College	1	49er ROP	Manufacturing and Product Development	1	49er ROP	Manufacturing and Product Development	-	-	-	
Siskiyou, College of the	1	Siskiyou ROP	Agriculture and Natural Resources; Building Trades and Construction; Energy and Utilities	-	-	-	-	-	-	140

Community College	140-Community College Collaborative Grants			141-Community College Supplemental Grants			142-Community College Workforce Innovation Partnership (WIP) Grants			Green Grants
	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	ROP(s)	Name of ROP(s)	Sector(s)	
Solano Community College	1	Solano ROP	Energy and Utilities; Manufacturing and Product Development	1	Solano ROP	Energy and Utilities, Manufacturing and Product Development	-	-	-	
South Orange County	2	Capistrano-Laguna Beach ROP, Coastline ROP	Education, Child Development, and Family Services	2	Capistrano-Laguna Beach ROP, Coastline ROP	Education, Child Development, and Family Services	2	Capistrano-Laguna Beach ROP, Coastline ROP	Arts, Media and Entertainment	
State Center District	2	Fresno COE, Madera COE, Valley ROP	Transportation	-	-	-	-	-	-	
Ventura County District	1	Ventura ROP	All Sectors	-	-	-	-	-	-	
West Valley-Mission District	3	Santa Clara County ROP North, Santa Clara County ROP South, Metro Ed District	Energy and Utilities	3	Santa Clara County ROP North, Santa Clara County ROP South, Metro Ed District	Energy and Utilities	3	Santa Clara County ROP North, Santa Clara County ROP South, Metro Ed District	Building Trades and Construction, Transportation, Arts, Media and Entertainment, Hospitality, Tourism, and Recreation	140 141 142
Yosemite District	2	Yosemite ROP, Merced County ROP	Energy and Utilities	-	-	-	2	Yosemite ROP, Merced County ROP	Energy and Utilities	140142
Yuba College	1	Yolo County ROP	Agriculture and Natural Resources	-	-	-	-	-	-	

CHART 2

ROCP capstone courses in the following high-demand industry sectors that can easily and rapidly be adapted with green-focused units of instruction: Building Trades/ Construction, Manufacturing, Transportation, Energy/Utilities, Engineering

High Demand ROCP Courses
Building Trades and Construction Sector
 (Existing green focused courses highlighted in green. Pending courses in pink.)

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
CENTRAL REGION				
Fresno ROP	4487	Building Trades and Construction	5502	Construction Technology-Exterior
Fresno ROP	3738	Building Trades and Construction	5502	Construction Technology-Interior
Fresno ROP	4461	Building Trades and Construction	5507	Building Trades
Kern County ROP	2537	Building Trades and Construction	5507	Construction Technology
Kern High ROC	2712	Building Trades and Construction	5507	Beginning Carpentry
Kern High ROC	2702	Building Trades and Construction	5507	Carpentry: Woodworking Technology
Kern High ROC	2728	Building Trades and Construction	5507	Carpentry: Woodworking Technology
Kern High ROC	679	Building Trades and Construction	5507	Construction
Kern High ROC	2727	Building Trades and Construction	5507	Industrial Construction
Merced County ROP	4264	Building Trades and Construction	5549	Construction Technology
Merced County ROP	2835	Building Trades and Construction	5549	Construction Technology I and II
Mono County ROP	930	Building Trades and Construction	5531	Cabinet Construction 1
Mono County ROP	933	Building Trades and Construction	5501	Construction Technology 1-2, 3-4
Mono County ROP	1291	Building Trades and Construction	5549	Construction Technology 1-2, 3-4
Mono County ROP	1326	Building Trades and Construction	5531	Woodworking / Cabinet Construction I
North Kern Vocational Training Center	2019	Building Trades and Construction	5507	Construction
San Joaquin County ROCP	2317	Building Trades and Construction	5502	Construction Technology
San Joaquin County ROCP	3977	Building Trades and Construction	5505	Masonry
San Joaquin County ROCP	1806	Building Trades and Construction	5613	Sheet Metal Technology
Valley ROP	4703	Building Trades and Construction	5502	Construction Technology - Interior
Valley ROP	4288	Building Trades and Construction	5549	Electrical Wiring
West Side ROP	2602	Building Trades and Construction	5502	Construction Technology
West Side ROP	396	Building Trades and Construction	5507	Construction Trades
Yosemite ROP	2429	Building Trades and Construction	5506	Building Construction
Yosemite ROP	2420	Building Trades and Construction	5506	Building Construction
Yosemite ROP	5611	Building Trades and Construction	5520	Cabinet Construction
Yosemite ROP	5612	Building Trades and Construction	5520	Cabinet Construction II
Yosemite ROP	2450	Building Trades and Construction	5507	Carpentry
Yosemite ROP	2707	Building Trades and Construction	5613	Sheet Metal Fabrication

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
COASTAL REGION				
Contra Costa County ROP	3032	Building Trades and Construction	5502	Construction Technology
Contra Costa County ROP	3247	Building Trades and Construction	5520	ROP Cabinetmaking
Eden Area ROP	2845	Building Trades and Construction	5505	Masonry Occupations
Eden Area ROP	946	Building Trades and Construction	5501	Construction Technology
Eden Area ROP	1537	Building Trades and Construction	5507	Construction Technology
Marin County ROP	2337	Building Trades and Construction	5501	Construction Technology
Metro Education District	1216	Building Trades and Construction	5516	AC/Refrigeration/Heating Techniques and Electrical
Metro Education District	1201	Building Trades and Construction	5512	Automatic Control Systems
Metro Education District	748	Building Trades and Construction	5502	Building Maintenance
Metro Education District	1211	Building Trades and Construction	5506	Building Maintenance
Metro Education District	1064	Building Trades and Construction	5520	Cabinetmaking
Metro Education District	4274	Building Trades and Construction	5520	Cabinetmaking for Apprenticeship
Metro Education District	770	Building Trades and Construction	5507	Carpentry
Metro Education District	4096	Building Trades and Construction	5508	Concrete Masonry
Metro Education District	749	Building Trades and Construction	5501	Construction Technology, Level 1 & 2
Metro Education District	4405	Building Trades and Construction	5512	Electrical Apprenticeship
Metro Education District	3758	Building Trades and Construction	5512	Electrical Maintenance
Metro Education District	1204	Building Trades and Construction	5512	Electrical Troubleshooting
Metro Education District	1203	Building Trades and Construction	5512	Electronic Control Devices
Metro Education District	3775	Building Trades and Construction	5516	Heating, Refrigeration & Air Conditioning
Metro Education District	4092	Building Trades and Construction	5528	Ironworkers Apprenticeships
Metro Education District	3769	Building Trades and Construction	5512	National Electric Code
Metro Education District	3760	Building Trades and Construction	5512	National Electrical Code Calculations
Metro Education District		Building Trades and Construction		Solar Installer (Photo Voltaic)
Metro Education District	3771	Building Trades and Construction	5512	Wiring Methods
Mission Trails ROP	951	Building Trades and Construction	5501	Construction Technology
Mission Trails ROP	2027	Building Trades and Construction	5520	Mill Cabinet
Mission Valley ROCP	2378	Building Trades and Construction	5501	Construction Technology
Mission Valley ROCP	5657	Building Trades and Construction	5514	Woodworking 1, 2, 3, 3D
Napa County ROP	719	Building Trades and Construction	5501	Construction Technology I, II, III
Oakland/Alameda ROP	5330	Building Trades and Construction	5507	Construction Technology I ¹
Oakland/Alameda ROP	5331	Building Trades and Construction	5507	Construction Technology II ²
Oakland/Alameda ROP	5277	Building Trades and Construction	5950	Exploring Careers in Construction ³

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
San Francisco County ROP	4198	Building Trades and Construction	5507	Building Trades/Carpenter Training Program
San Mateo County ROP	2356	Building Trades and Construction	5549	Architectural Design
San Mateo County ROP	2348	Building Trades and Construction	5520	Cabinet/Furniture Making
San Mateo County ROP	2307	Building Trades and Construction	5531	Wood Fabrication I and II
Santa Clara County ROP	490	Building Trades and Construction	5520	Cabinetmaking
Santa Clara County ROP	722	Building Trades and Construction	5503	Construction Technology
Santa Cruz County ROP	1027	Building Trades and Construction	5502	Construction Technology
Santa Cruz County ROP	962	Building Trades and Construction	5520	Cabinetry
Santa Lucia ROP	1067	Building Trades and Construction	5520	Cabinetmaking
Santa Lucia ROP	862	Building Trades and Construction	5501	Construction Technology
Santa Lucia ROP	4297	Building Trades and Construction	5502	Construction Technology
Solano County ROP	2900	Building Trades and Construction	5549	Advanced Residential Construction
Solano County ROP	1193	Building Trades and Construction	5516	HVAC, Commercial Refrig. & Resid. Appliance Repair
Solano County ROP	885	Building Trades and Construction	5501	Pre-Apprenticeship: Introduction to Construction
Solano County ROP	2184	Building Trades and Construction	5531	Woodworking/Cabinetry II
Sonoma County ROP	1186	Building Trades and Construction	5514	Cabinet and Furniture Making
Sonoma County ROP	1192	Building Trades and Construction	5501	Construction Technology
NORTHERN REGION				
Butte County ROP	5389	Building Trades and Construction	5520	Cabinetmaking
Butte County ROP	634	Building Trades and Construction	5502	Home Construction
Central Sierra ROP	2593	Building Trades and Construction	5507	Construction Technology
Central Sierra ROP	2480	Building Trades and Construction	5503	Resort Maintenance and Repair Management
Central Sierra ROP	2481	Building Trades and Construction	5507	ROP Construction
Forty-Niner ROP	5759	Building Trades and Construction	5502	Construction and Architectural Design
Forty-Niner ROP	499	Building Trades and Construction	5502	Construction Fundamentals
Forty-Niner ROP	4725	Building Trades and Construction	5502	Construction Technologies
Forty-Niner ROP	500	Building Trades and Construction	5502	Construction Technology
Forty-Niner ROP	3367	Building Trades and Construction	5502	Design and Construction
Forty-Niner ROP	2949	Building Trades and Construction	5502	Design and Construction
Forty-Niner ROP	4815	Building Trades and Construction	5505	Introduction to Masonry
Glenn County ROP	5016	Building Trades and Construction	5502	Construction
Glenn County ROP	5013	Building Trades and Construction	5514	Furniture Making
Humboldt County ROP	3338	Building Trades and Construction	5501	Building Trades
Humboldt County ROP	3341	Building Trades and Construction	5520	Cabinetmaking

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
Lake County ROP	1054	Building Trades and Construction	5531	Cabinet and Furniture Making
Lake County ROP	1069	Building Trades and Construction	5501	Construction
Plumas County ROP	3474	Building Trades and Construction	5549	Building Construction
Plumas County ROP	383	Building Trades and Construction	5549	Building Construction
Sacramento County ROP	481	Building Trades and Construction	0	Building Maintenance and Repair
Sacramento County ROP	6074	Building Trades and Construction	5502	Construction & Management Technology
Sacramento County ROP	2548	Building Trades and Construction	5507	Construction Technology
Sacramento County ROP	480	Building Trades and Construction	5507	Construction Technology (Outreach)
Sacramento County ROP	4417	Building Trades and Construction	5503	Construction Technology Deconstruction Technician
Sacramento County ROP	2131	Building Trades and Construction	5505	Masonry Occupations
Sacramento County ROP	3290	Building Trades and Construction	5531	Woodworking Careers
Shasta-Trinity ROP	4599	Building Trades and Construction	5502	advanced building trades
Shasta-Trinity ROP	3399	Building Trades and Construction	5502	Building Trades ⁴
Shasta-Trinity ROP	3013	Building Trades and Construction	5520	Cabinetmaking
Shasta-Trinity ROP	640	Building Trades and Construction	5512	Electrician
Siskiyou ROP		Building Trades and Construction		Green Construction Trades ⁵
Tehama County ROP	4568	Building Trades and Construction	5520	Cabinet Making and Wood Manufacturing
Tehama County ROP	6055	Building Trades and Construction	5950	Construction
Tri-County ROP	5532	Building Trades and Construction	5549	Commercial and Residential Community Development
Tri-County ROP	5712	Building Trades and Construction	5502	Construction Arts
Tri-County ROP	1275	Building Trades and Construction	5549	Construction Management
Tri-County ROP	2114	Building Trades and Construction	5507	Construction Technology
Tri-County ROP	1285	Building Trades and Construction	5514	Furniture and Cabinet Construction
Tri-County ROP	3049	Building Trades and Construction	5514	Furniture and Cabinet Construction
Tri-County ROP	4650	Building Trades and Construction	5512	Residential Electrical
SOUTHERN REGION				
Antelope Valley ROP	6059	Building Trades and Construction	5502	Building Construction Technology
Baldy View ROP	2955	Building Trades and Construction	5516	Air Conditioning
Baldy View ROP	2923	Building Trades and Construction	5520	Cabinetmaking
Baldy View ROP	2385	Building Trades and Construction	5507	Construction Pre-Apprentice
Baldy View ROP	2999	Building Trades and Construction	5505	Masonry
Baldy View ROP	3728	Building Trades and Construction	5524	Plumbing
Capistrano-Laguna Beach ROP	1956	Building Trades and Construction	5507	Construction
Central County ROP	2749	Building Trades and Construction	5516	Air Conditioning/Heating/Refrigeration Technician

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
Central County ROP	1234	Building Trades and Construction	5507	Construction Technology
Central County ROP		Building Trades and Construction		Construction Trades II
Central County ROP		Building Trades and Construction		Green Construction
Central County ROP	3701	Building Trades and Construction	5524	Plumbing Service & Repair
Central County ROP	4302	Building Trades and Construction	5524	Plumbing-Service and Repair
Central County ROP	5460	Building Trades and Construction	5531	Wood Manufacturing I
Central County ROP	5461	Building Trades and Construction	5531	Wood Manufacturing II
Coastline ROP	2693	Building Trades and Construction	5501	Construction Technology
Colton-Redlands-Yucaipa ROP	3864	Building Trades and Construction	5520	Cabinet Making
Colton-Redlands-Yucaipa ROP	3863	Building Trades and Construction	5502	Construction Technology
East San Gabriel Valley ROP	2991	Building Trades and Construction	5507	Cabinetry Design and Construction
East San Gabriel Valley ROP	3386	Building Trades and Construction	5501	Construction Trade
East San Gabriel Valley ROP	2543	Building Trades and Construction	5501	Energy Efficient Construction
Hart ROP	6093	Building Trades and Construction	5501	Construction Technology
Hart ROP	5925	Building Trades and Construction	5524	Plumbing
Imperial Valley ROP		Building Trades and Construction		Construction and Building Technology ⁶
Inyo County ROP	1586	Building Trades and Construction	5507	Carpentry
Inyo County ROP	1539	Building Trades and Construction	5531	Woodworking I & II
La Puente Valley ROP	3220	Building Trades and Construction	5502	Construction Technology
La Puente Valley ROP	4586	Building Trades and Construction	5510	HVAC/RPTT
Long Beach Unified School District ROP	1050	Building Trades and Construction	5501	Construction Technology 1-2
Long Beach Unified School District ROP	1401	Building Trades and Construction	5501	Construction Technology 1-2
Long Beach Unified School District ROP	1412	Building Trades and Construction	5503	Construction Technology 1-2
Long Beach Unified School District ROP	1052	Building Trades and Construction	5503	Construction Technology
Los Angeles Unified School District ROCP	3820	Building Trades and Construction	5510	Air Conditioning Technician (Fundamentals)
Los Angeles Unified School District ROCP	3822	Building Trades and Construction	5510	Air Conditioning Technician Trainee
Los Angeles Unified School District ROCP		Building Trades and Construction		Bench Carpentry
Los Angeles County ROP	3688	Building Trades and Construction	5503	Building Construction
Los Angeles Unified School District ROCP	3826	Building Trades and Construction	5505	Brick Layer: Pre-Apprenticeship
Los Angeles Unified School District ROCP		Building Trades and Construction		Carpentry
Los Angeles Unified School District ROCP	1713	Building Trades and Construction	5502	Construction Inspector (Introduction)
Los Angeles Unified School District ROCP	1852	Building Trades and Construction	5549	Construction Inspector: Grading
Los Angeles Unified School District ROCP	1715	Building Trades and Construction	5549	Construction Inspector: Public Works
Los Angeles Unified School District ROCP	1716	Building Trades and Construction	5549	Construction Inspector: Reinforced Concrete

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
Los Angeles Unified School District ROCP	1718	Building Trades and Construction	5549	Construction Inspector: Structural Steel & Welding
Los Angeles Unified School District ROCP	1717	Building Trades and Construction	5549	Construction Inspector: Structural Masonry
Los Angeles Unified School District ROCP	1714	Building Trades and Construction	5549	Construction Inspector: The Inspection Environment
Los Angeles Unified School District ROCP	1848	Building Trades and Construction	5502	Construction Worker (Fundamentals)
Los Angeles Unified School District ROCP	1763	Building Trades and Construction	5502	Construction Worker: Construction and Remodeling
Los Angeles Unified School District ROCP	1765	Building Trades and Construction	5502	Construction Worker: Pre-Apprenticeship
Los Angeles Unified School District ROCP	1689	Building Trades and Construction	5549	Contractor: License Preparation
Los Angeles Unified School District ROCP	4782	Building Trades and Construction	5518	Electrical Powerline Mechanic
Los Angeles Unified School District ROCP	4783	Building Trades and Construction	5518	Electrical Powerline Mechanic Trainee
Los Angeles Unified School District ROCP	1678	Building Trades and Construction	5513	Flooring Technician
Los Angeles Unified School District ROCP	1679	Building Trades and Construction	5513	Flooring Technician Trainee
Los Angeles Unified School District ROCP	3832	Building Trades and Construction	5516	Maintenance Supervisor: Heating and Ventilation
Los Angeles Unified School District ROCP	1866	Building Trades and Construction	5512	Mobile Electronics Technician Trainee
Los Angeles Unified School District ROCP		Building Trades and Construction		Plumbing
Los Angeles Unified School District ROCP	4781	Building Trades and Construction	5518	Powerline Systems
Los Angeles Unified School District ROCP	3823	Building Trades and Construction	5510	Refrigeration Technician
Los Angeles Unified School District ROCP	3825	Building Trades and Construction	5510	Refrigeration Technician: Service
Los Angeles Unified School District ROCP		Building Trades and Construction		Woodworking Machine Operation
North Orange County ROP	3240	Building Trades and Construction	5524	Backflow Prevention Devices
North Orange County ROP	3366	Building Trades and Construction	5505	Brick Tender Apprenticeship
North Orange County ROP	3396	Building Trades and Construction	5520	Cabinetmaking II
North Orange County ROP	4434	Building Trades and Construction	5507	Carpentry/Construction Occupations
North Orange County ROP	1642	Building Trades and Construction	5512	Electrical Theory
North Orange County ROP	1640	Building Trades and Construction	5507	Finish Carpentry and Remodeling
North Orange County ROP	3494	Building Trades and Construction	5516	Heating, Ventilation, Air Conditioning (HVAC)
North Orange County ROP	1157	Building Trades and Construction	5549	Blueprint Reading for Construction
North Orange County ROP	3368	Building Trades and Construction	5505	Masonry Occupations
North Orange County ROP	4356	Building Trades and Construction	5507	Plastering Apprenticeship
North Orange County ROP	3654	Building Trades and Construction	5524	Plumbing Occupations Level I, II, & III
North Orange County ROP	3860	Building Trades and Construction	5613	Sheet Metal Worker Apprenticeship
North Orange County ROP	3394	Building Trades and Construction	5531	Wood Manufacturing Occupations
Riverside County ROP	5472	Building Trades and Construction	5505	Masonry Occupations
San Bernardino County ROP	807	Building Trades and Construction	5501	Construction Trades
San Bernardino County ROP	3300	Building Trades and Construction	5512	Fundamentals of Electrical Repair

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
San Bernardino County ROP	788	Building Trades and Construction	5514	Furniture/Cabinet Manufacturing and Finishing
San Bernardino County ROP	3301	Building Trades and Construction	5516	Intro. to Heating, Ventilation & Air Conditioning
San Bernardino County ROP	4630	Building Trades and Construction	5505	Masonry Occupations
San Bernardino County ROP	4617	Building Trades and Construction	5521	Painting Occupations
San Bernardino County ROP	709	Building Trades and Construction	5514	Woodworking Occupations
San Diego County ROP	2259	Building Trades and Construction	5516	AC/Heating/Refrigeration
San Diego County ROP	2248	Building Trades and Construction	5505	Block Masonry/Basic
San Diego County ROP	2242	Building Trades and Construction	5502	Building Maintenance & Repair
San Diego County ROP	2133	Building Trades and Construction	5520	Cabinetmaking
San Diego County ROP	2174	Building Trades and Construction	5512	Construction Electrician
San Diego County ROP	2109	Building Trades and Construction	5549	Construction Materials Testing
San Diego County ROP	2173	Building Trades and Construction	5502	Construction/General
San Diego County ROP	2140	Building Trades and Construction	5514	Furniture Manufacturing/Finishing
San Diego County ROP	2244	Building Trades and Construction	5524	Plumbing
Santa Barbara County ROP-North	4998	Building Trades and Construction	5502	Construction Technology
Santa Barbara County ROP-South	5782	Building Trades and Construction	5502	Construction Technology
Southern California ROC	4646	Building Trades and Construction	5549	Construction Management
Southern California ROC	4710	Building Trades and Construction	5531	Wood Design
Ventura County ROP	2793	Building Trades and Construction	5520	Cabinetmaking Technology
Ventura County ROP	2786	Building Trades and Construction	5502	Construction Technology

High Demand ROCP Courses

Energy and Utilities Sector

(Existing green focused courses highlighted in green. Pending courses in pink.)

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
CENTRAL REGION				
Yosemite ROP	2418	Energy and Utilities	5512	Electrical Trades
COASTAL REGION				
Metro Education District	3770	Energy and Utilities	5512	AC & DC Motors/Controls
Metro Education District	1201	Energy and Utilities	5512	Automatic Control Systems
Metro Education District	3758	Energy and Utilities	5512	Electrical Maintenance
Metro Education District	1204	Energy and Utilities	5512	Electrical Troubleshooting
Metro Education District	1203	Energy and Utilities	5512	Electronic Control Devices
Metro Education District	3769	Energy and Utilities	5512	National Electric Code
Metro Education District	3760	Energy and Utilities	5512	National Electrical Code Calculations
Metro Education District	3771	Energy and Utilities	5512	Wiring Methods
Marin County ROP	3790	Energy and Utilities	5561	Electronics/Engineering
Tri-Valley ROP		Energy and Utilities		Alternative/Renewable Energy I
Tri-Valley ROP		Energy and Utilities		Alternative/Renewable Energy II
Tri-Valley ROP		Energy and Utilities		Environmental Science
Tri-Valley ROP		Energy and Utilities		Waste Water Treatment
NORTHERN REGION				
Sacramento County ROP	6073	Energy and Utilities	5574	Engineering Technology
Sacramento County ROP	5857	Energy and Utilities	5651	Renewable Energy Systems Design
Shasta-Trinity ROP	640	Energy and Utilities	5512	Electrician
SOUTHERN REGION				
East San Gabriel Valley ROP	3697	Energy and Utilities	5551	Electronics Technology
East San Gabriel Valley ROP	4947	Energy and Utilities	5551	Electronics Technology/Mobile Technology
East San Gabriel Valley ROP	4949	Energy and Utilities	5561	Electronics Technician/Home Technology Integration
La Puente Valley ROP	3221	Energy and Utilities	5512	Orient. to Apprentice Training for Electric Indust
Long Beach Unified School District ROP	5548	Energy and Utilities	5698	Energy and Environmental Engineering
LAUSD ROP		Energy and Utilities		Air Conditioning Technician I
LAUSD ROP		Energy and Utilities		Air Conditioning Technician II
LAUSD ROP		Energy and Utilities		Electrical Powerline Mechanic

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
LAUSD ROP		Energy and Utilities		Electrical Powerline Mechanic Trainee
LAUSD ROP	1777	Energy and Utilities	5693	Electrical Technician: Electric Motor Controls
LAUSD ROP	1767	Energy and Utilities	5512	Electrician (Fundamentals)
LAUSD ROP	1768	Energy and Utilities	5512	Electrician: Wiring and Codes
LAUSD ROP	1770	Energy and Utilities	5512	Electrician: Wiring Techniques
LAUSD ROP		Energy and Utilities		Electronics I
LAUSD ROP		Energy and Utilities		Electronics II
LAUSD ROP		Energy and Utilities		Electronics III
LAUSD ROP		Energy and Utilities		Home Technology Integration: Certification Preparation
LAUSD ROP	1775	Energy and Utilities	5512	Industrial Electrician
LAUSD ROP	1866	Energy and Utilities	5512	Mobile Electronics Technician Trainee
LAUSD ROP		Energy and Utilities		Mobile Electronics I
LAUSD ROP		Energy and Utilities		Mobile Electronics II
LAUSD ROP		Energy and Utilities		Mobile Electronics III
LAUSD ROP		Energy and Utilities		Photovoltaic Installation (Introduction)
LAUSD ROP		Energy and Utilities		Photovoltaic Installation (Certification Preparation)
LAUSD ROP		Energy and Utilities		Powerline Systems
LAUSD ROP		Energy and Utilities		Refrigeration Technician I
LAUSD ROP		Energy and Utilities		Refrigeration Technician II
North Orange County ROP	1642	Energy and Utilities	5512	Electrical Theory
San Bernardino County ROP	3300	Energy and Utilities	5512	Fundamentals of Electrical Repair
San Diego County ROP (Scripps Ranch HS)		Energy and Utilities		Introduction to Green Technology
San Diego County ROP (Scripps Ranch HS)		Energy and Utilities		Photovoltaic Installer

High Demand ROCP Courses
Engineering and Design Sector
 (Existing green focused courses highlighted in green. Pending courses in pink.)

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
CENTRAL REGION				
Fresno ROP	2514	Engineering and Design	5703	Architectural Design
Fresno ROP	4469	Engineering and Design	5703	Architectural Drafting (CAD)
Fresno ROP	2210	Engineering and Design	5703	Architectural Engineering Design
Fresno ROP	5731	Engineering and Design	5561	Advanced Robotics and Electronics
Fresno ROP	5730	Engineering and Design	5561	Electronics Technology
Fresno ROP	4025	Engineering and Design	5575	Environmental Fields Studies
Fresno ROP	4408	Engineering and Design	5575	Environmental Science and Technology
San Joaquin County ROCP	1272	Engineering and Design	5705	Computer-Aided Drafting/Design
San Joaquin County ROCP	2510	Engineering and Design	5972	Pre-Engineering
Yosemite ROP	5396	Engineering and Design	5612	Applied Technology
Yosemite ROP	2454	Engineering and Design	5705	Computer Assisted Drafting
Yosemite ROP	2463	Engineering and Design	5705	Drafting-Construction Technology
COASTAL REGION				
Contra Costa County ROP	5502	Engineering and Design	5975	Introduction to Engineering
Contra Costa County ROP	5501	Engineering and Design	5975	Principles of Engineering
Eden Area ROP	2069	Engineering and Design	5705	Computerized Drafting
Eden Area ROP	1438	Engineering and Design	5705	Industrial Drafting
Marin County ROP	3791	Engineering and Design	5701	Drafting/Construction Design
Mission Trails ROP		Engineering and Design		Green Engineering
Mission Trails ROP	425	Engineering and Design	5701	Industrial Drafting
Oakland/Alameda ROP	5379	Engineering and Design	5955	Advanced Drafting/CAD-3D modeling
Oakland/Alameda ROP	5245	Engineering and Design	5703	Architectural Design and Drafting 1
Santa Clara County ROP	1692	Engineering and Design	5705	Computer Aided Drafting/Design
Santa Clara County ROP	2635	Engineering and Design	5558	Computer Hardware Repair
Santa Clara County ROP	899	Engineering and Design	5975	Engineering Technology
Santa Lucia ROP	2211	Engineering and Design	5703	Architecture Design
Santa Lucia ROP	2101	Engineering and Design	5603	CAD-CAM Engineering
Santa Lucia ROP	1063	Engineering and Design	5705	Computer Aided Drafting
Sacramento County ROP	3803	Engineering and Design	5705	Advanced Computer Assisted Design & Drafting I

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
NORTHERN REGION				
Sacramento County ROP	2336	Engineering and Design	5572	Computer Repair
Sacramento County ROP	5858	Engineering and Design	5612	Robotics
Shasta-Trinity ROP	3009	Engineering and Design	5705	Computer Aided Drafting
Tri-County ROP	843	Engineering and Design	5598	Laser Optics
SOUTHERN REGION				
Antelope Valley ROP	5687	Engineering and Design	5749	Geographic Information Systems (GIS)
Capistrano-Laguna Beach ROP		Engineering and Design		3-D Model Making
Central County ROP	5432	Engineering and Design	5705	3-D Drafting and Design
Central County ROP	5433	Engineering and Design	5706	Computer-Assisted Drawing (CAD)
Central County ROP	5433	Engineering and Design	5561	Electronics Technician
Central County ROP		Engineering and Design		Engineering
Central County ROP		Engineering and Design	4633	Geographic Information Systems (GIS)
Central County ROP		Engineering and Design	4634	GIS for a Sustainable Green World
Central County ROP	5446	Engineering and Design	5560	Home Technology Integration I
Central County ROP	5450	Engineering and Design	5560	Home Technology Integration II
Central County ROP	5451	Engineering and Design	5560	Home Technology Integration III
Central County ROP	5455	Engineering and Design	5649	Pre-Engineering
East San Gabriel Valley ROP	3174	Engineering and Design	5705	Computer Aided Drafting/Design
East San Gabriel Valley ROP	4551	Engineering and Design	5698	Pre-Engineering and Design
Hart ROP	6095	Engineering and Design	5574	Exploring Engineering Technology
Imperial Valley ROP		Engineering and Design		Energy for Engineering
Imperial Valley ROP		Engineering and Design		Introduction to Renewable Energy Resources ¹
La Puente Valley ROP	3222	Engineering and Design	5955	Engineering/Manufacturing Technology ²
Long Beach Unified School District ROP		Engineering and Design		Architecture I And II
Long Beach Unified School District ROP		Engineering and Design		Architecture III And IV
Long Beach Unified School District ROP	5869	Engineering and Design	5940	Foundations of Engineering
North Orange County ROP	5862	Engineering and Design	4633	Intro to Geographic Information Systems (GIS-Green STEM)
North Orange County ROP	4522	Engineering and Design	5749	Introduction to Engineering Design
North Orange County ROP	4529	Engineering and Design	5601	Principles of Engineering
San Bernardino County ROP	1901	Engineering and Design	5572	A+ Certification
San Bernardino County ROP	1099	Engineering and Design	5558	Computer Maintenance and Repair
San Diego County ROP	2117	Engineering and Design	5558	Computer Repair

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
San Diego County ROP	2160	Engineering and Design	5558	Data/Voice/Video Cable Install
San Diego County ROP	2142	Engineering and Design	5705	Drafting/Computer Aided
San Diego County ROP	2172	Engineering and Design	5563	Electronics Technician
San Diego County ROP	2162	Engineering and Design	5649	Engineering Principles
San Diego County ROP	2161	Engineering and Design	5869	Environmental Science and Technology
San Diego County ROP	2173	Engineering and Design	5502	Green Construction A/B/C/D
San Diego County ROP	2162	Engineering and Design	5783	Pre-Engineering & Design A/B/C/D
Southern California ROC	5905	Engineering and Design	5704	Civil Engineering/Architecture
Southern California ROC	5912	Engineering and Design	5598	Engineering Mechatronics & Computer Systems I & II
Southern California ROC	5941	Engineering and Design	5559	Introduction to Engineering Science
Tri-Cities ROP	3253	Engineering and Design	4618	CISCO Internetworking
Tri-Cities ROP	4328	Engineering and Design	5558	Computer Repair, Level 2
Tri-Cities ROP	4326	Engineering and Design	5558	Computer Troubleshooting and Maintenance Level 1
Tri-Cities ROP	3252	Engineering and Design	4618	Designing and Implementing Wireless LANs
Tri-Cities ROP	3170	Engineering and Design	4618	Networking Essentials
Tri-Cities ROP	3197	Engineering and Design	4649	Introductory to Linux
Tri-Cities ROP	3169	Engineering and Design	5612	Robotics Technology

High Demand ROCP Courses
Finance and Business Sector
 (Existing green focused courses highlighted in green. Pending courses in pink.)

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
CENTRAL REGION				
Fresno ROP	3743	Finance and Business	4698	Financial Occupations
COASTAL REGION				
Sonoma County ROP	1039	Finance and Business	4637	Business Management
NORTHERN REGION				
Forty-Niner ROP	4766	Finance and Business	4103	Financial Services
Forty-Niner ROP	498	Finance and Business	4103	Financial Services Careers
Glenn County ROP	1706	Finance and Business	4103	Financial Occupations
Shasta-Trinity ROP	3400	Finance and Business	4103	Banking and Financial Occupations
Tri-County ROP	3079	Finance and Business	4103	Applied Finance
Tri-County ROP	5710	Finance and Business	4637	Small Business Ownership and Management
SOUTHERN REGION				
Antelope Valley ROP	340	Finance and Business	4637	Project Management
Baldy View ROP	2922	Finance and Business	4103	Banking/Financial Occupations
Capistrano-Laguna Beach ROP		Finance and Business		Small Business Management and Entrepreneurship
Central County ROP	2883	Finance and Business	4103	Banking Financial Occupations
Central County ROP	2744	Finance and Business	4103	Banking Financial Services
Central County ROP	1974	Finance and Business	4103	Careers in Banking
Central County ROP	2441	Finance and Business	4103	Loan Processing
Coastline ROP	2651	Finance and Business	4103	Banking and Financial Services
Colton-Redlands-Yucaipa ROP	2834	Finance and Business	4103	Financial Occupations
Los Angeles County ROP	3639	Finance and Business	4103	Financial Services: Banking and Insurance
North Orange County ROP	4020	Finance and Business	4103	Financial Services/marketing (Banking)
San Antonio ROP	4088	Finance and Business	4103	Financial Occupations
San Bernardino County ROP	1294	Finance and Business	4103	Financial Services Occupations
San Diego County ROP	2139	Finance and Business	4103	Business & Financial Services
Tri-Cities ROP	3235	Finance and Business	4103	Financial Banking
Ventura County ROP	2795	Finance and Business	4103	Banking and Finance

High Demand ROCP Courses
Manufacturing and Product Development Sector
 (Existing green focused courses highlighted in green. Pending courses in pink.)

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
CENTRAL REGION				
Kings County ROP	741	Manufacturing and Product Development	5616	Welding and Construction I
Kings County ROP	740	Manufacturing and Product Development	5616	Welding and Construction II
Kings County ROP	5158	Manufacturing and Product Development	5616	Welding Fabrication I
Kings County ROP	5159	Manufacturing and Product Development	5616	Welding Fabrication II
Kings County ROP	5157	Manufacturing and Product Development	5620	Welding - Stainless
Fresno ROP	2209	Manufacturing and Product Development	5616	ARC Welding
Fresno ROP	2545	Manufacturing and Product Development	5601	Engineering and Product Development
Fresno ROP	4411	Manufacturing and Product Development	5618	Oxyacetylene Welding
Yosemite ROP	2419	Manufacturing and Product Development	5608	Metal Fabrication
COASTAL REGION				
Eden Area ROP	827	Manufacturing and Product Development	5616	Welding Metal Fabrication Technology
Santa Clara County ROP	2089	Manufacturing and Product Development	5608	Metal Fabrication
Santa Clara County ROP	1060	Manufacturing and Product Development	5616	Welding
NORTHERN REGION				
Sacramento County ROP	2331	Manufacturing and Product Development	5608	Manufacturing Technology: Metals
Shasta-Trinity ROP	3026	Manufacturing and Product Development	5608	Metal Fabrication and Welding
Tri-County ROP	5713	Manufacturing and Product Development	5955	Advanced Welding and Construction
SOUTHERN REGION				
Central County ROP	5453	Manufacturing and Product Development	5611	Plastics Occupations I - Thermo Plastics
Central County ROP	5454	Manufacturing and Product Development	5611	Plastics Occupations II - Thermo Plastics
Central County ROP		Manufacturing and Product Development	5612	Robotics
La Puente Valley ROP	2904	Manufacturing and Product Development	5649	Pre-Engineering & Technology
San Bernardino County ROP	5106	Manufacturing and Product Development	5649	Engineering Design & Development
San Diego County ROP	2234	Manufacturing and Product Development	5611	Plastics/Composite Processing
San Diego County ROP	2000	Manufacturing and Product Development	5616	Welding Training/Testing
Southeast ROP		Manufacturing and Product Development		Welding

High Demand ROCP Courses
Marketing, Sales, and Service Sector
 (Existing green focused courses highlighted in green. Pending courses in pink.)

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
NORTHERN REGION				
Sacramento County ROP	3371	Marketing, Sales, and Service	4116	Real Estate Occupations-Escrow Assistant
SOUTHERN REGION				
Central County ROP	1991	Marketing, Sales, and Service	4116	Escrow Processor
Central County ROP	1227	Marketing, Sales, and Service	4116	Mortgage Loan Processing Clerk
Coastline ROP	4087	Marketing, Sales, and Service	4116	Careers in Real Estate
La Puente Valley ROP	5081	Marketing, Sales, and Service	4116	Real Estate Agent: Principals
Los Angeles County ROP	4361	Marketing, Sales, and Service	4116	Escrow Assistant
LAUSD ROP	1756	Marketing, Sales, and Service	4116	Real Estate Agent: Finance
LAUSD ROP	1759	Marketing, Sales, and Service	4116	Real Estate Agent: Appraisal
LAUSD ROP	1757	Marketing, Sales, and Service	4116	Real Estate Agent: Escrow Principles
North Orange County ROP	3683	Marketing, Sales, and Service	4116	Escrow Assistant
North Orange County ROP	3357	Marketing, Sales, and Service	4116	Mortgage Loan Processing Clerk
San Bernardino County ROP	3782	Marketing, Sales, and Service	4116	Escrow Technician
Southeast ROP	3907	Marketing, Sales, and Service	4116	Real Estate Agent/Principles
Southeast ROP	3906	Marketing, Sales, and Service	4116	Real Estate Mortgage/Loan Processing

High Demand ROCP Courses

Transportation Sector

(Existing green focused courses highlighted in green. Pending courses in pink.)

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
CENTRAL REGION				
Fresno ROP	4470	Transportation	5654	Auto Collision Repair
Fresno ROP	1161	Transportation	5655	Auto Mechanics Fundamentals
Fresno ROP	4468	Transportation	5655	Auto Systems Technology
Fresno ROP	1404	Transportation	5654	Automotive Refinishing
Fresno ROP	4801	Transportation	5655	Automotive Technician Training (ASE) Test Prep
Fresno ROP	4462	Transportation	5655	Automotive Technology
Fresno ROP	4444	Transportation	5657	Diesel Engine Technology
Fresno ROP	4439	Transportation	5655	Engine Technology
Kern County ROP	2541	Transportation	5655	Automotive Mechanics
Kern High ROC	2711	Transportation	5654	Auto Body/Fender Repair
Kern High ROC	2724	Transportation	5688	Auto Technology
Kern High ROC	2567	Transportation	5688	Auto Technology
Kern High ROC	2722	Transportation	5688	Auto Technology 2
Kern High ROC	2721	Transportation	5688	Auto Technology 3
Kern High ROC	2720	Transportation	5688	Auto Technology 4
Kern High ROC	2719	Transportation	5688	Auto Technology 5
Kern High ROC	2718	Transportation	5688	Auto Technology 6
Kern High ROC	2716	Transportation	5688	Auto Technology 7
Kern High ROC	2563	Transportation	5657	Diesel Mechanics
Kern High ROC	1241	Transportation	5661	Small Engine Repair
Kings County ROP	1141	Transportation	5655	Advanced Automotive Services
Kings County ROP	1138	Transportation	5654	Auto Body and Paint
Kings County ROP	1140	Transportation	5688	Automotive Internship
Merced County ROP	1980	Transportation	5688	Automotive Services I and II
Mono County ROP	1517	Transportation	5652	Automotive Service Technician I and II
North Kern Vocational Training Center	1918	Transportation	5654	Auto Body Paint Refinishing
North Kern Vocational Training Center	1922	Transportation	5688	Auto Technology
San Joaquin County ROCP	455	Transportation	5655	Automotive Technology I and II
San Joaquin County ROCP	1832	Transportation	5688	Automotive Technology III

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
Valley ROP	1480	Transportation	5652	Auto Mechanics 1
Valley ROP	2494	Transportation	5655	Auto Mechanics 2
Valley ROP	2495	Transportation	5655	Auto Mechanics 3
Valley ROP	1482	Transportation	5684	Engine Performance
Valley ROP	1290	Transportation	5661	Small Gas Engines and Outdoor Power
West Side ROP	2784	Transportation	5652	Automotive Technology
West Side ROP	395	Transportation	5655	Automotive Technology
Yosemite ROP	582	Transportation	5653	AIRFRAME and Power-Plant Mechanics
Yosemite ROP	2496	Transportation	5654	Auto Body Repair
Yosemite ROP	2493	Transportation	5654	Auto Body Repair II
Yosemite ROP	2501	Transportation	5676	Auto Repair I
Yosemite ROP	2500	Transportation	5652	Auto Service Tech 1 & 2
Yosemite ROP	2505	Transportation	5652	Auto Service Tech 3 & 4
Yosemite ROP	2503	Transportation	5670	Auto Transmission Repair (Front Wheel)
Yosemite ROP	2502	Transportation	5652	Automotive Training
Yosemite ROP	2499	Transportation	5672	Automatic Transmission Repair
Yosemite ROP	2497	Transportation	5661	Small Engine/Motor 3-4
Yosemite ROP	2504	Transportation	5661	Small Engine/Motor Repair
COASTAL REGION				
Contra Costa County ROP	531	Transportation	5655	Automotive Technician
Contra Costa County ROP	3298	Transportation	5654	ROP Automobile Body Repair
Eden Area ROP	1534	Transportation	5654	Auto Painting
Eden Area ROP	1972	Transportation	5664	Automotive Collision
Eden Area ROP	1932	Transportation	5655	Automotive Mechanic Technology ¹
Eden Area ROP	2068	Transportation	5652	Basic Automotive
Marin County ROP	2339	Transportation	5655	Auto Technology
Metro Education District	756	Transportation	5654	Auto Body Refinishing
Metro Education District	1222	Transportation	5654	Auto Body Repair and Refinishing
Metro Education District	3767	Transportation	5652	Automotive Services
Metro Education District	1221	Transportation	5688	Auto Transmissions
Metro Education District	1198	Transportation	5680	Auto Tune-Up and Electrical Systems
Metro Education District	829	Transportation	5676	Brakes and Alignment
Metro Education District	893	Transportation	5688	Engine Repair and Transmissions
Metro Education District	4067	Transportation	5662	School Bus Driver

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
Metro Education District	4083	Transportation	5678	Smog/Clean Air Car Bar 00 Advanced
Metro Education District	4079	Transportation	5678	Smog/Clean Air Car-Intern Technician License Req.
Metro Education District	4080	Transportation	5678	Smog/Clean Air-Certification/Licensing Introduction
Metro Education District	4075	Transportation	5678	Technician License Requirements
Metro Education District	4077	Transportation	5662	Tow Truck Operator
Metro Education District	1111	Transportation	5657	Truck Mechanics
Mission Trails ROP	2284	Transportation	5655	Auto Service
Mission Trails ROP	1018	Transportation	5654	Automobile Body and Fender
Mission Trails ROP	1026	Transportation	5654	Automobile Body and Fender Co-op
Mission Valley ROCP	2374	Transportation	5654	Auto Body and Refinishing
Mission Valley ROCP	2379	Transportation	5672	Automotive Transmission & Transaxle
Mission Valley ROCP	2293	Transportation	5655	Automotive Technology ²
Mission Valley ROCP	509	Transportation	5686	Heating, Ventilation, Air Conditioning and Refrigeration
Mission Valley ROCP	2375	Transportation	5654	Major Collision/Repair & Refinishing
Mission Valley ROCP	5658	Transportation	5655	Small Engine Repair
Napa County ROP	447	Transportation	5652	Auto Services Levels 1, 2, 3
Oakland/Alameda ROP	5214	Transportation	5655	Auto Technology I
Oakland/Alameda ROP	5215	Transportation	5655	Auto Technology II
Santa Clara County ROP	897	Transportation	5655	Automotive Technology 1
Santa Cruz County ROP	964	Transportation	5654	Advanced Autobody Repair
Santa Cruz County ROP	965	Transportation	5654	Auto Detailing
Santa Cruz County ROP	2841	Transportation	5654	Autobody Repair
Santa Cruz County ROP	743	Transportation	5688	Clean Air
Santa Cruz County ROP	751	Transportation	5678	Engine performance
Santa Cruz County ROP	747	Transportation	5682	Engine Repair
Santa Lucia ROP	2871	Transportation	5688	Automotive Engine Diagnosis
Santa Lucia ROP	2874	Transportation	5688	Automotive Internship
Santa Lucia ROP	2873	Transportation	5688	Automotive Light Repair
Santa Lucia ROP	2872	Transportation	5688	Automotive Maintenance
Santa Lucia ROP	2839	Transportation	5676	Automotive Power Train System
Sonoma County ROP	2843	Transportation	5654	Auto Body Repair and Paint
Solano County ROP	888	Transportation	5688	Auto Mechanics
Solano County ROP	3645	Transportation	5655	Automotive Technology II
Solano County ROP	891	Transportation	5674	Automotive Technology-Brakes

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
Solano County ROP	889	Transportation	5679	Automotive Technology-Electrical Systems
Solano County ROP	892	Transportation	5684	Automotive Technology-Engine Performance
Solano County ROP	882	Transportation	5675	Automotive Technology Suspension and Steering
Solano County ROP	3643	Transportation	5675	Automotive Technology-Suspension & Steering
Sonoma County ROP	1187	Transportation	5655	Advanced Automotive Technology/Diesel
Sonoma County ROP	5840	Transportation	5655	Automotive Technology Diesel
Tri-Valley ROP	1431	Transportation	5654	Auto Collision Repair I
Tri-Valley ROP	1429	Transportation	5652	Auto Service and Maintenance
Tri-Valley ROP	1430	Transportation	5682	Automotive Machinist
Tri-Valley ROP	1182	Transportation	5660	Small Engines/Motorcycle Technology
NORTHERN REGION				
Amador County ROP	3722	Transportation	5652	ROP Automotive Services
Amador County ROP	3723	Transportation	5652	ROP Automotive Services
Butte County ROP	596	Transportation	5654	Auto Body Paint and Repair
Butte County ROP	3270	Transportation	5655	Automotive Technology
Calaveras County ROP	1325	Transportation	5688	Automotive Electricity and Electronics
Calaveras County ROP	1327	Transportation	5655	Automotive Mechanics Combination
Calaveras County ROP	775	Transportation	5655	ROP Auto III and IV
Calaveras County ROP	776	Transportation	5688	ROP Auto I and II
Central Sierra ROP	2408	Transportation	5654	Auto Body
Central Sierra ROP	2528	Transportation	5688	Auto Engine
Central Sierra ROP	2409	Transportation	5655	Automotive Mechanics
Central Sierra ROP	2459	Transportation	5655	Automotive Service
Forty-Niner ROP	4857	Transportation	5652	Automotive Services
Forty-Niner ROP	2401	Transportation	5652	Automotive Services
Forty-Niner ROP	4864	Transportation	5655	Automotive Technology
Glenn County ROP	2943	Transportation	5655	Automotive Technology
Humboldt County ROP	3327	Transportation	5652	ASE Automotive Academy-Brakes
Humboldt County ROP	3331	Transportation	5652	ASE Automotive Academy-Suspension/Steering
Humboldt County ROP	3337	Transportation	5652	Automotive Technology
Humboldt County ROP	5956	Transportation	5654	ROP Automotive Body Repair and Refinishing
Lake County ROP	1073	Transportation	5655	Auto Mechanics 1, 2, 3
Lassen ROP	1761	Transportation	5654	Auto Collision and Refinishing
Lassen ROP	1766	Transportation	5688	Automotive Mechanics
Lassen ROP	2146	Transportation	5652	Automotive Services

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
Lassen ROP	2179	Transportation	5688	Diesel, Tools, and Parts
Lassen ROP	2177	Transportation	5661	Small Engine Repair
Lassen ROP	2150	Transportation	5688	Tools, Parts and Service
Plumas County ROP	349	Transportation	5652	Auto Mechanics Occupations
Plumas County ROP	3475	Transportation	5652	Auto Mechanics Occupations
Sacramento County ROP	2134	Transportation	5654	Auto Collision Repair and Estimator I and II
Sacramento County ROP	3498	Transportation	5655	Auto Mechanics Tech 1 (Basic) Semesters 1&2
Sacramento County ROP	3499	Transportation	5653	Automotive Collision Repair & Refinish Tech II
Sacramento County ROP	2988	Transportation	5654	Automotive Collision Repair & Refinish Tech 1
Sacramento County ROP	1911	Transportation	5655	Automotive Service Technician 1 (Basic) Sem 1 & 2
Sacramento County ROP	3067	Transportation	5655	Automotive Technology II, Semesters 1-4
Sacramento County ROP	2824	Transportation	5655	Automotive Technology III
Shasta-Trinity ROP	3407	Transportation	5688	Automotive Technology ³
Tehama County ROP	4567	Transportation	5688	Automotive Service: Vehicle Maintenance
Tri-County ROP	4747	Transportation	5664	Advanced Auto Body Repair
Tri-County ROP	5321	Transportation	5666	Auto Body Refinishing
Tri-County ROP	3048	Transportation	5654	Auto Body Repair
Tri-County ROP	3047	Transportation	5688	Auto Diagnosis and Tune-up
Tri-County ROP	3933	Transportation	5688	Auto Technology
SOUTHERN REGION				
Antelope Valley ROP	5046	Transportation	5655	Automotive Engine Rebuilding and Re-finishing
Antelope Valley ROP	1263	Transportation	5655	Automotive General Service Technician
Antelope Valley ROP	1469	Transportation	5655	Automotive Repair and Service Occupations
Antelope Valley ROP	1478	Transportation	5658	Automotive Parts Specialist
Antelope Valley ROP	736	Transportation	5674	Brake Technician
Antelope Valley ROP	1268	Transportation	5688	Lubrication Specialist
Antelope Valley ROP	1472	Transportation	5661	Small Engine Repair
Antelope Valley ROP	1473	Transportation	5688	Tire Service Technician
Baldy View ROP	2920	Transportation	5654	Auto Body Repair/Paint
Baldy View ROP	1083	Transportation	5652	Auto Quick Service
Baldy View ROP	2921	Transportation	5655	Automotive
Baldy View ROP	2305	Transportation	5688	Automotive Performance & Customization
Capistrano-Laguna Beach ROP		Transportation		Automotive Technology
Central County ROP	1528	Transportation	5652	Automotive and Transportation Technology I

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
Central County ROP	442	Transportation	5652	Automotive and Transportation Technology II
Central County ROP	441	Transportation	5652	Automotive and Transportation Technology III
Central County ROP	1151	Transportation	5654	Automotive Body Repair and Refinishing
Central County ROP	2748	Transportation	5676	Automotive Brakes & Suspension
Central County ROP	1984	Transportation	5676	Automotive Brakes and Front End
Central County ROP	2747	Transportation	5688	Automotive Careers
Central County ROP	1238	Transportation	5652	Automotive Careers I
Central County ROP	1237	Transportation	5652	Automotive Careers II
Central County ROP	1236	Transportation	5652	Automotive Careers III
Central County ROP	4395	Transportation	5688	Automobile Detailing
Central County ROP	1981	Transportation	5678	Automotive Lubrication and Tune-up
Central County ROP	5428	Transportation	5688	Automotive Performance & Customization II
Central County ROP	4986	Transportation	5688	Automotive Performance and Customization I
Central County ROP	1150	Transportation	5654	Automobile Spray Painting
Central County ROP	2745	Transportation	5678	Automotive Tune-up & Emissions Control
Central County ROP	3676	Transportation	5660	Motorcycle/ATV/Small Engine/Personal Water Craft Tech
Central County ROP	4305	Transportation	5660	Motorcycle/ATV/Small Engine/Personal Watercraft Tech
Central County ROP	431	Transportation	5662	Truck Driving
Colton-Redlands-Yucaipa ROP	4031	Transportation	5654	Auto Collision Repair and Refinishing
Colton-Redlands-Yucaipa ROP	1512	Transportation	5688	Automotive General Service Technician
East San Gabriel Valley ROP	3693	Transportation	5655	Automotive Technology
Hart ROP	4893	Transportation	5655	Automotive Technology
Inyo County ROP	1588	Transportation	5688	Auto Mechanics I & II
Inyo County ROP	1548	Transportation	5660	Motorcycle/Small Engine Repair
La Puente Valley ROP	3159	Transportation	5655	Auto. Tech. Training, Auto. Repair & Tune Up II
La Puente Valley ROP	5895	Transportation	5682	Small Engine Technician
Long Beach Unified School District ROP	1407	Transportation	5654	Auto Body Repair 1-2
Long Beach Unified School District ROP	1410	Transportation	5654	Auto Body Repair 3-4
Long Beach Unified School District ROP	1409	Transportation	5654	Introduction to Careers in Auto Collision Repair
Long Beach Unified School District ROP	3478	Transportation	5664	Intro to Career in Auto Collision Repair
Los Angeles County ROP	3840	Transportation	5688	Automotive Detailing
Los Angeles County ROP	3534	Transportation	5654	Automotive Collision Repair and Refinishing
Los Angeles County ROP	3666	Transportation	5652	Automotive Technology
LAUSD ROP	1645	Transportation	5653	Airframe and Power plant Technician

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
LAUSD ROP	1647	Transportation	5653	Airframe Technician Trainee
LAUSD ROP	1646	Transportation	5653	Airline Maintenance Operations
LAUSD ROP	2580	Transportation	5654	Auto Body Estimator
LAUSD ROP	2579	Transportation	5654	Auto Body Technician (Fundamentals)
LAUSD ROP	2577	Transportation	5654	Auto Body Technician Assistant
LAUSD ROP	2831	Transportation	5654	Auto Body Technician I
LAUSD ROP	2578	Transportation	5654	Auto Body Technician/2
LAUSD ROP	2612	Transportation	5655	Auto Technician: Electronic Engine Controls
LAUSD ROP	2610	Transportation	5655	Auto Technician: Electronic Engine Controls - ASE
LAUSD ROP	2611	Transportation	5655	Auto Technician: Electronic Engine Controls (Upgrade)
LAUSD ROP	2566	Transportation	5655	Automobile Technician: General Service
LAUSD ROP	2587	Transportation	5655	Automotive Technician (Fundamentals)
LAUSD ROP	2588	Transportation	5655	Automotive Technician (Introduction)
LAUSD ROP	2575	Transportation	5655	Automotive Technician (Upgrade)
LAUSD ROP	2576	Transportation	5655	Automotive Technician Trainee
LAUSD ROP	2596	Transportation	5655	Automotive Technician/1
LAUSD ROP	2595	Transportation	5655	Automotive Technician/2
LAUSD ROP	2590	Transportation	5655	Automotive Technician/3
LAUSD ROP	2559	Transportation	5655	Automotive Technician: Advanced Diagnostics for Au
LAUSD ROP	2558	Transportation	5655	Automotive Technician: Auto Air Conditioning and E
LAUSD ROP	2609	Transportation	5655	Automotive Technician: Electronics
LAUSD ROP	2557	Transportation	5655	Automotive Technician: Engine Performance/1
LAUSD ROP	2574	Transportation	5655	Automotive Technician: Engine Performance/2
LAUSD ROP	2572	Transportation	5655	Automotive Technician: Exhaust Emissions
LAUSD ROP	2571	Transportation	5655	Automotive Technician: Exhaust Emissions (Upgrade)
LAUSD ROP	2569	Transportation	5655	Automotive Technician: Exhaust Emissions-20-Hr.OBD
LAUSD ROP	2608	Transportation	5655	Automotive Technician: Diagnostic Oscilloscope Test
LAUSD ROP	2573	Transportation	5655	Automotive Technician: Exhaust Emissions (Fundament)
LAUSD ROP	2570	Transportation	5655	Automotive Technician: Exhaust Emissions-20-Hr.Smog
LAUSD ROP	2568	Transportation	5655	Automotive Technician: Exhaust Emissions-Smog Tech.
LAUSD ROP	2599	Transportation	5655	Brakes, Steering, and Suspension Technician
LAUSD ROP	2600	Transportation	5655	Brakes, Steering, and Suspension Technician (Intro)
LAUSD ROP	2597	Transportation	5655	Brakes, Steering, and Suspension Technician Trainee
LAUSD ROP	2598	Transportation	5655	Brakes, Steering, and Suspension Technician (Upgrade)

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
LAUSD ROP	2586	Transportation	5657	Diesel Technician (Fundamentals)
LAUSD ROP	2584	Transportation	5657	Diesel Technician Trainee
LAUSD ROP	2585	Transportation	5657	Diesel Technician: Fuel Systems
LAUSD ROP	1650	Transportation	5653	Power plant Technician Trainee
LAUSD ROP	2562	Transportation	5655	Transmission Technician Trainee
LAUSD ROP	2564	Transportation	5655	Transmission Technician: Automatic Transmission (Fund.)
North Orange County ROP	3736	Transportation	5654	Auto Body Repair Occupations
North Orange County ROP	3752	Transportation	5655	Automotive Technician Training
North Orange County ROP	3754	Transportation	5688	Automotive Detailing
North Orange County ROP	3390	Transportation	5655	Hybrid Automotive Technology
North Orange County ROP	3358	Transportation	5655	Intro to Automotive Technology
North Orange County ROP	3423	Transportation	5660	Motorcycle Repair/Personalized Watercraft Tech.
San Bernardino County ROP	728	Transportation	5654	Auto Collision repair
San Bernardino County ROP	4627	Transportation	5652	Automotive Engine Performance
San Bernardino County ROP	4626	Transportation	5652	Automotive Fundamentals
San Bernardino County ROP	4621	Transportation	5652	Automotive Maintenance
San Bernardino County ROP	4624	Transportation	5652	Automotive Services
San Bernardino County ROP	4632	Transportation	5652	Automotive Systems
San Bernardino County ROP	4622	Transportation	5652	Automotive Technician
San Bernardino County ROP	1567	Transportation	5657	Diesel Technology
San Bernardino County ROP	4631	Transportation	5660	Motorcycle Maintenance
San Bernardino County ROP	3518	Transportation	5676	NATEF Certification (Alignment/Brakes/Suspension)
San Bernardino County ROP	3081	Transportation	5680	NATEF Certification (Engine Performance & Electrical)
San Diego County ROP	2256	Transportation	5654	Auto Body Repair and Refinishing
San Diego County ROP	2250	Transportation	5678	Auto Engine Performance/Suspension/Steering/Brakes
San Diego County ROP	2884	Transportation	5682	Auto Engine Rebuilding
San Diego County ROP	2255	Transportation	5655	Auto Technology
San Diego County ROP	2153	Transportation	5657	Diesel Equipment Technician
San Diego County ROP	2165	Transportation	5661	Engine Repair
San Diego County ROP	2040	Transportation	5662	Straight Truck/Bus Driving
San Diego County ROP	2240	Transportation	5698	Power, Energy and Transportation, Electric Vehicle
Santa Barbara County ROP-North	4967	Transportation	5655	Auto Brakes, Front-End, Steering and Suspension
Santa Barbara County ROP-North	4966	Transportation	5655	Auto Tune-up and Emissions Inspection
Santa Barbara County ROP-North	4962	Transportation	5652	Automotive Occupations

ROCP	CDE Course Number	CTE Industry Sector	CBEDS Code	Course Title
Santa Barbara County ROP-South	3559	Transportation	5654	Advanced Auto Body Repair
Santa Barbara County ROP-South	3618	Transportation	5654	Advanced Auto Body Repair and Compliance Req.
Santa Barbara County ROP-South	3558	Transportation	5654	Auto Body Repair
Southeast ROP	4863	Transportation	5654	Auto Body: Non-Structural Damage Repair
Southeast ROP		Transportation		Alternative Fuels ⁴
Southeast ROP	3497	Transportation	5678	Power Technology-Advanced Engine Performance
Southern California ROC	1601	Transportation	5686	Automotive Heating & Air Conditioning
Tri-Cities ROP	3162	Transportation	5676	Automotive Brakes and Wheel Alignment
Tri-Cities ROP	3165	Transportation	5655	Automotive Technology
Ventura County ROP	2808	Transportation	5664	Auto Body Repair
Ventura County ROP	2799	Transportation	5666	Auto Paint Repair and Refinishing
Ventura County ROP	2796	Transportation	5688	Auto Service

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Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
Alameda				
RE	Automotive technology, diesel and truck mechanics		Green Econ Scan	n/c
Allan Hancock				
WE	Plumbing Apprenticeship		WE Scan	Certificate
EE	Civil engineering, natural science, environmental technology		Green Econ Scan	n/c
RE	Intro Renewable Energy		ATTE	Certificate
MHA	Environmental Studies		Infrastructure Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Heavy Equipment Maintenance		Infrastructure Scan	n/c
MHA	Heavy Equipment Operation		Infrastructure Scan	n/c
American River				
EE	Lighting Efficiency		N/Far N	Certificate
EE	Energy Management Technician		N/Far N	Certificate
EE	Home Technology Integration		N/Far N	Certificate
EE	Interior Design/Green Bldg & Sustainable Design (LEED)		N/Far N	Certificate
RE	Alternative Fuels Technology		N/Far N	Certificate
RE	Clean Diesel Technology		N/Far N	Certificate
RE	Solar Technology		N/Far N	Certificate
RE	Solar Systems Design		N/Far N	Certificate
EE	Related Courses		N/Far N	Courses
MHA	Ecology, natural resources, green diesel technology, geographic information systems		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Air Conditioning Specialist		GB SoCal	Associate Degree
MHA	Air Conditioning-Refrigeration Specialist		GB SoCal	Associate Degree
MHA	Electrical Technology		GB SoCal	Associate Degree
MHA	Landscape Construction		GB SoCal	Associate Degree
EE	Electrical Technology		Utilities Scan	Certificate
EE	Refrigeration Specialist		CV Green TOP Codes	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Antelope Valley College				
EE	Auto, Fuel, Emission Systems, and CA Clean Air		InfrastructureScan	Certificate

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EWERE	Program Name	College	Source	Degree/Cert/Courses
EE	Surey of Electronics (alternative Energy		InfrastructureScan	Associate Degree
EE	Fundamentals of Lighting Design		InfrastructureScan	Associate Degree
Bakersfield				
WE	Plumbers & Steamfitters Apprenticeship		WE Scan	Certificate
MHA	Environmental engineering, environmental science, environmenta		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Barstow				
MHA	Natural resources		Green Econ Scan	n/c
Berkley City College				
MHA	Biotech program focus in physical scienc	Berkeley City College	Green Econ Scan	n/c
Butte				
EE	Energy Efficiency & Renewable Energy		N/Far N	Courses
EE	Green Bldg Technology		N/Far N	Courses
EE	Green Bldg & LEED Certification		N/Far N	Courses
RE	Energy Efficiency & Renewable Energy		N/Far N	Courses
WE	Restoration Water Purification		N/Far N	Courses
MHA	Civil engineering, ecology, environmental science, hydrological sc		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Cabrillo				
EE	Construction & Energy Mgmt		Bay EE Scan	Associate Degree
EE	Building Codes & Inspection		Bay EE Scan	Associate Degree
EE	Hands-on Skills		Bay EE Scan	Certificate
EE	EE Related Courses		Bay EE Scan	Courses
RE	PV Solar Design & Installation		Bay Solar	Courses
MHA	Engineering Technology		Infrastructure Scan	n/c
CACTUS (San Jose)				
EE	Building Analyst Professional		COE Director	Courses
EE	Home Energy Rater Services (HERS)		COE Director	Courses

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Green College Master Course List

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EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
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EWERE	Program Name	College	Source	Degree/Cert/Courses
EE	California Home Energy Efficiency Rating Service (CHEERS)		COE Director	Courses
RE	Solar PV Installer Training		COE Director	Courses
CCSF				
EE	Construction Management		Bay EE Scan	Associate Degree
EE	Air Conditioning & Refrigeration		Bay EE Scan	Certificate
EE	Engineered Plumbing Systems		Bay EE Scan	Certificate
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Environmental horticulture		Green Econ Scan	n/c
Cerritos				
MHA	Architectural Technology		GB SoCal	Associate Degree
EE	Electrical Trades Apprenticeship		Utilities Scan	n/c
MHA	Natural resources		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Architectural (Transfer)		GB SoCal	Associate Degree
Cerro Coso				
MHA	Natural resources, industrial technology		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
RE	Industrial Technology - Solar Tech			Associate Degree, Certificates
RE	Industrial Technology - Wind Tech			Associate Degree, Certificates
Chabot				
	Plant Engineering Apprenticeship			
WE	Plumbing & Pipefitting		WE Scan	Certificate
EE	Electronics Systems Technology		Bay EE Scan	Courses
RE	PV Solar Design & Installation		Bay Solar	Courses
EE	HVAC		Green Econ Scan	n/c
Chaffey				
MHA	Drafting Technician: Architectural		GB SoCal	Associate Degree
MHA	Earth sciences		Green Econ Scan	n/c
Citrus				
EE	Energy Systems Technology		COE Director	(Planned)
EE	Building Systems Design Technician		COE Director	(Planned)

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Green College Master Course List

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EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
	Building Maintenance & Operations Technician		COE Director	(Planned)
EE				
MHA	Heating & Air Conditioning		GB SoCal	Associate Degree
WE	Water Technology		WO Scan	Associate Degree
WE	Water Technology		WO Scan	Certificate
MHA	Heating & Air Conditioning		GB SoCal	Courses
MHA	Architectural Drafting: CAD		GB SoCal	Courses
MHA	Architectural Design		GB SoCal	Courses
WE	Related Courses		WO Scan	Courses
EE	Wastewater engineering and operations		Green Econ Scan	n/c
MHA	Public Works		Infrastructure Scan	n/c
College of Marin				
MHA	Civil engineering, environmental landscaping, natural resources, €		Green Econ Scan	n/c
College of the Canyons				
MHA	Architectural Drafting		GB SoCal	Associate Degree
MHA	Construction Mgmt Technology		GB SoCal	Associate Degree
MHA	Natural resources		Green Econ Scan	n/c
MHA	Surveying		Infrastructure Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
WE	Water Systems Technology		CV Green TOP Codes	n/c
College of the Desert				
EE	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
MHA	Construction Mgmt (Emp. Oriented)		GB SoCal	Associate Degree
MHA	Construction Mgmt (Transfer)		GB SoCal	Associate Degree
MHA	Architectural Technology		GB SoCal	Associate Degree
MHA	Architectural Technology (Transfer Oriented)		GB SoCal	Associate Degree
EE	HVAC		CV Green TOP Codes	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
RE	Alternative fuels technician		Green Econ Scan	n/c
College of the Redwoods				
MHA	Metal working, diesel fuel injection		Green Econ Scan	n/c

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Green College Master Course List

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EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
College of the Sequoias				
EE	HVAC		CV Green TOP Codes	n/c
EE	Construction, welding, carpentry, agriculture power equipment, w		Green Econ Scan	n/c
RE	Solar PV Installer Training		CV Green TOP Codes	n/c
RE	Alternative fuels		Green Econ Scan	n/c
College of the Siskiyous				
MHA	Welding		Green Econ Scan	n/c
Columbia				
WE	Environmental science, watershed restoration, GIS		Green Econ Scan	n/c
Consumnes				
RE	Environmental Studies & Sustainability		N/Far N	Associate Degree
EE	Home Energy Auditing		N/Far N	Certificate
EE	Green Building		N/Far N	Certificate
EE	Green Bldg Draftsperson, Bldg Information Mgmt Sustainable Landscape & Water		N/Far N	Certificate
WE	Systems Design		N/Far N	Certificate
RE	Automotive Program		N/Far N	Courses
Contra Costa				
MHA	Earth sciences		Green Econ Scan	n/c
Copper Mountain				
MHA	Environmental sciences		Green Econ Scan	n/c
Consumnes River				
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Crafton Hills				
MHA	Environmental sciences		Green Econ Scan	n/c
Cuesta				
MHA	Environmental science, natural resources, environmental horticult		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Cuyamaca				

California Community Colleges Chancellor's Office

Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
	Solar Photovoltaic Installation			Certificate
	Solar Thermal Installation			Certificate
	Certified landscape Irrigation auditor Preparation			Certificate
	Water Management Certification Program			Certificate
	Water Conservation Practitioner Grade 1			Certificate
	Industrial Wastewater And Storm water Management			Certificate
	Hydrology		Green Econ Scan	n/c
MHA	Environmental, Health, and Safety Management			Associate Degree
MHA	Irrigation Technology		GB SoCal	Associate Degree
MHA	Landscape Technology		GB SoCal	Associate Degree
MHA	Landscape Design		GB SoCal	Associate Degree
MHA	Civil engineering, environmental engineering, environmental scier		Green Econ Scan	n/c
MHA	Surveying		Infrastructure Scan	n/c
WE	Wastewater Collection Systems		COE Director	n/c
WE	Water Distribution Systems		COE Director	n/c
WE	Wastewater Treatment Operator		COE Director	n/c
WE	Water Treatment Plant Operator		COE Director	n/c
Cypress				
RE	Solar Technology		LA Solar	(Planned)
MHA	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
EE	HVAC, GIS		Green Econ Scan	n/c
De Anza				
MHA	Environmental Studies		Infrastructure Scan	n/c
RE	PV Solar Design & Installation		Bay Solar	(Planned)
EE	Energy Mgmt & Climate Policy		Bay EE Scan	Associate Degree
	Environ. Compliance &			
EE	Polution Prevention		Bay EE Scan	Associate Degree
EE	Energy Mgmt & Climate Policy		Bay EE Scan	Certificate
	Environ. Compliance &			
EE	Polution Prevention		Bay EE Scan	Certificate
Diablo Valley				
EE	Architecture		Bay EE Scan	Associate Degree
EE	Engineering Technology		Bay EE Scan	Associate Degree

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EWERE	Program Name	College	Source	Degree/Cert/Courses
EE	Construction & Bldg Inspection		Bay EE Scan	Certificate
EE	Construction Management		Bay EE Scan	Certificate
	Construction & Supervision & Superintendency			
EE	Superintendency		Bay EE Scan	Certificate
EE	Architecture		Bay EE Scan	Certificate
EE	Engineering Technology		Bay EE Scan	Certificate
EE	HVAC Courses		Bay EE Scan	Courses
EE	Related Courses		Bay EE Scan	Courses
RE	PV Solar Design & Installation		Bay Solar	Courses
EE	GIS, alternate energy technology program		Green Econ Scan	n/c

East LA

EE	Energy Efficiency Weatherization		COE Director	(Planned)
MHA	Architectural Computer Aided Design		GB SoCal	Associate Degree
MHA	Architectural Transportation Planning		GB SoCal	Associate Degree
MHA	Architectural Drafting		GB SoCal	Associate Degree
MHA	Architectural GIS/MAPS		GB SoCal	Courses
MHA	Architectural Drawing		GB SoCal	Courses
	Architectural Computer Aided Design, Auto CAD			
MHA	Auto CAD		GB SoCal	Courses
MHA	Architectural Drawing		GB SoCal	Courses
MHA	Architectural Computer Aided Design		GB SoCal	Courses
MHA	Architectural Graphics		GB SoCal	Courses
RE	Equipment & Building Systems		LA Solar	Courses
RE	Introductory Photovoltaic Installer		LA Solar	Courses
MHA	Engineering Technology		Infrastructure Scan	n/c

El Camino

EE	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
MHA	Construction Technology		GB SoCal	Associate Degree
EE	Air Conditioning & Refrigeration		GB SoCal	Certificate
EE	HVAC		CV Green TOP Codes	n/c
EE	Horticulture, environmental sciences, environmental technology		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c

Evergreen Valley

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Green College Master Course List

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EWERE	Program Name	College	Source	Degree/Cert/Courses
EE	Fuel and electrical technology		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Feather River				
MHA	Environment (ENVR)		N/Far N	Associate Degree
WE	Fisheries & Hatchery Mgmt		N/Far N	Courses
WE	Ag Mgmt & Landscape		N/Far N	Courses
WE	Watershed Protection & Restoration		N/Far N	Courses
MHA	Environmental Studies		Infrastructure Scan	n/c
Folsom Lake				
WE	Water Management		N/Far N	Certificate
WE	Waste Water Management		N/Far N	Certificate
EE	Alternative Energy Applications & Sustainability		N/Far N	Courses
Foothill				
EE	HVAC Courses		Bay EE Scan	Courses
EE	Commercial & residential electrician		Bay EE Scan	n/c
MHA	Horticulture, environmental sciences, GIS		Green Econ Scan	n/c
Fresno City				
EE	Air Conditioning		CV Green TOP Codes	n/c
EE	HVAC and industrial electronics, environmental technology		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Fullerton				
MHA	Architecture		GB SoCal	Associate Degree
MHA	Construction Technology		GB SoCal	Associate Degree
MHA	Construction Mgmt		GB SoCal	Associate Degree
MHA	Landscape Management		GB SoCal	Associate Degree
MHA	Landscape Irrigation		GB SoCal	Certificate
MHA	Construction Estimating		GB SoCal	Courses
MHA	Environmental technology, environmental science		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Glendale				

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Green College Master Course List

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Architectural Drafting		GB SoCal	Associate Degree
EE	Drafting/Electro-Mechanical Design		Utilities Scan	Certificate
Golden West				
MHA	Architectural Technology		GB SoCal	Associate Degree
RE	Environmental Technology		Solar Tech	Certificate
MHA	CAD - Architectural		GB SoCal	Courses
	Two year program of study including Renewable Energy, Solar-Thermal & Solar-Photovoltaics			
RE			LA Solar	n/c
Hartnell				
MHA	Environmental technology		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
WE	Water Technology		CV Green TOP Codes	n/c
Imperial Valley				
	Air Conditioning & Refrigeration Technology			
EE			GB SoCal	Courses
EE	Environmental Control (HVAC)			Associate Degree/Certification
EE/RE	Industrial Electronics (Controls)			Certification
WE	Water Treatment			Certification
RE/EE	Electrical Wiring (DAS)			Certification
EE/RE	Building Construction			Certification
	Industrial electronics, wastewater engineering and operations, environmental technology			
WE			Green Econ Scan	n/c
LA City				
RE	Solar Technician		LA Solar	(Planned)
MHA	Architecture		GB SoCal	Associate Degree
MHA	Engineering Technology		Infrastructure Scan	n/c
LA Harbor				
MHA	Architecture & Technology		GB SoCal	Associate Degree
MHA	Architecture & Technology		GB SoCal	Courses
MHA	Architecture & Technology		GB SoCal	Courses

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Green College Master Course List

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Engineering Technology		Infrastructure Scan	n/c
LA Pierce				
MHA	Architecture & Technology		GB SoCal	Associate Degree
MHA	Architecture: Construction Tech		GB SoCal	Associate Degree
MHA	Landscape Installation & Maint		GB SoCal	Associate Degree
MHA	Landscape Planning and Design		GB SoCal	Associate Degree
MHA	Landscape Technician - Basic		GB SoCal	Courses
MHA	Landscape Technician - Advanced		GB SoCal	Courses
LA Trade Tech				
EE	Electrical Mechanic		COE Director	(Planned)
EE	Energy Efficiency Weatherization Refrigeration & Air Conditioning		COE Director	(Planned)
EE	Mechanics		GB SoCal	Associate Degree
MHA	Architectural Technology		GB SoCal	Associate Degree
MHA	Electrical Construction & Maint. Electrical Construction & Maintenance:		GB SoCal	Associate Degree
MHA	Construction Tech		GB SoCal	Associate Degree
WE	Water Systems Technology		WO Scan	Associate Degree
EE	Electrical Construction and Maintenance		Utilities Scan	Certificate
EE	Electrical Cable Splicer Apprenticeship		Utilities Scan	Certificate
EE	National Electrical Code		Utilities Scan	Certificate
EE	Basic Electrical Trainee		Utilities Scan	Certificate
EE	Electrical Lineman Apprenticeship		Utilities Scan	Certificate
MHA	Voice Data Video and Fire Life Safety Tech		Utilities Scan	Certificate
MHA	Programmable Logic Controllers		Utilities Scan	Certificate
MHA	Motor Control		Utilities Scan	Certificate
RE	Solar Energy Maintenance		COE Director	Certificate
RE	Biodiesel Technician		COE Director	Certificate
RE	Hybrid Vehicle Technology		COE Director	Certificate
RE	CNG/LNG Transportation		COE Director	Certificate
RE	Solar-Photovoltaic Installer		LA Solar	Certificate
EE	Fundamentals of Refrigeration & Air Conditioning		GB SoCal	Courses

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Green College Master Course List

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Architectural Tech: Digital Design		GB SoCal	Courses
	Architectural Tech: Computer Aided Drafting		GB SoCal	Courses
MHA	Historic Preservation		GB SoCal	Courses
MHA	Operation & Maintenance Engineering: Steam Plant		GB SoCal	Courses
MHA	Electrical Cable Splicer (ApprenticeshipP		GB SoCal	Courses
MHA	Voice Data Video & Fire Life Safety Technician		GB SoCal	Courses
MHA	Electrical Const & Maint: Programmable Logic Controllers		GB SoCal	Courses
MHA	Electrical Const & Maint: National Electrical Code		GB SoCal	Courses
MHA	Electrical Const & Maint: Motor Control		GB SoCal	Courses
MHA	Basic Electrical Trainee		GB SoCal	Courses
WE	Related Courses		WO Scan	Courses
EE	Operation & Maintenance Eng.		CV Green TOP Codes	n/c
EE	Refrig & AC Mechanics		CV Green TOP Codes	n/c
MHA	Public Works		Infrastructure Scan	n/c
RE	Diesel technology, solid waste operations, HVAC, wastewater eng		Green Econ Scan	n/c
WE	Supply Water Technology		CV Green TOP Codes	n/c

LA Valley

EE	Sustainable Construction Management		COE Director	Associate Degree
EE	Sustainable Construction Management		COE Director	Certificate
MHA	Architecture		GB SoCal	Courses
MHA	Industrial operations and manufacturing, earth sciences		Green Econ Scan	n/c

Lake Tahoe

EE	Introduction to Green Technology		N/Far N	Courses
EE	Introduction to Green Careers		N/Far N	Courses

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MHA	= May Have Application	271	Courses (Planned)	107 13
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EWERE	Program Name	College	Source	Degree/Cert/Courses
Laney				
EE	Residential/Light Commercial HVAC/R & Commercial HVAC/R		Bay EE Scan	Associate Degree
EE	Carpentry w/green carpentry emphasis		Bay EE Scan	Associate Degree
EE	Construction Management		Bay EE Scan	Associate Degree
EE	Residential/Light Commercial HVAC/R & Commercial HVAC/R		Bay EE Scan	Certificate
EE	Carpentry w/green carpentry emphasis		Bay EE Scan	Certificate
EE	Construction Management		Bay EE Scan	Certificate
EE	Building Codes & Inspection		Bay EE Scan	Certificate
EE	Architecture Course in Sustainable Design		Bay EE Scan	Courses
EE	Architectural & engineering technology, HVAC & refrigeration (en		Green Econ Scan	n/c
Las Positas				
MHA	Occupational health and safety		Green Econ Scan	n/c
Long Beach				
RE	Solar Technician/Installer		LA Solar	(Planned)
EE	Air Conditioning & Refrigeration (Theory & Practical Exp.)		GB SoCal	Associate Degree
EE	Air Conditioning & Refrigeration (Theory Only)		GB SoCal	Associate Degree
MHA	Architectural Design		GB SoCal	Associate Degree
EE	AC/Refrigeration		CV Green TOP Codes	Courses
MHA	Home Remodeling & Repair		GB SoCal	Courses
MHA	Architectural Drafting		GB SoCal	Courses
RE	Alternative fuels		Green Econ Scan	n/c
Los Medanos				
EE	Energy Systems Technology Energy Technology		Bay EE Scan	Associate Degree
EE	Facilities Management (Appliance Services)		Bay EE Scan	Associate Degree

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EWERE	Program Name	College	Source	Degree/Cert/Courses
EE	Industrial Process Technology Program		Bay EE Scan	Associate Degree
EE	HVAC & Commercial HVAC		Bay EE Scan	Certificate
EE	Environmental Technology		Bay EE Scan	Courses
EE	Electronic technology, environmental science, welding technology		Green Econ Scan	n/c
EE	Environmental science, welding technology, physical sciences		Green Econ Scan	n/c
Marin				
MHA	Engineering Technology		Infrastructure Scan	n/c
Menocino				
EE	Horticulture, HVAC, natural resources, computer and information		Green Econ Scan	n/c
Merced				
EE	Commercial Refrigeration Technician		CV Green TOP Codes	n/c
EE	HVAC Technician		CV Green TOP Codes	n/c
EE	Agriculture science, horticulture, natural resources		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Merritt				
EE	Green Bldg. & Energy Mgmt Environmental Design & Energy		Bay EE Scan	Associate Degree
MHA	Technology		GB SoCal	Associate Degree
EE	Green Bldg. & Energy Mgmt Energy Systems Technology- Environmental Design & Energy		Bay EE Scan	Certificate
RE	Technology		Solar Tech	Courses
EE	Urban farming ecology, horticulture, environmental restoration, hu		Green Econ Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
San Diego Mesa				
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
Mira Costa				
MHA	Architectural Technology		GB SoCal	Associate Degree
MHA	Landscape Management		GB SoCal	Associate Degree
MHA	Irrigation Technology		GB SoCal	Courses
MHA	Landscape Assistant		GB SoCal	Courses
MHA	Radiation		Green Econ Scan	n/c

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EWERE	Program Name	College	Source	Degree/Cert/Courses
Miramar				
MHA	Heavy Equipment Maintenance		Infrastructure Scan	n/c
MHA	Heavy Equipment Operation		Infrastructure Scan	n/c
Mission				
EE	Design Drafting: Electro-Mechanical		Utilities Scan	Certificate/Degree
EE	Design Drafting: Electronic		Utilities Scan	Certificate/Degree
MHA	Environmental engineering		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Modesto Junior				
EE	Horticulture, natural resources, industrial systems technician		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Moorpark				
MHA	Drafting Technology/CAD: Architectural Option		GB SoCal	Courses
MHA	Civil engineering, environmental engineering, environmental scier		Green Econ Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
Mt. San Antonio				
MHA	Architectural Technology Level I		GB SoCal	Associate Degree
MHA	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
MHA	Architectural Technology		GB SoCal	Certificate
WE	Water Technology		WO Scan	Certificate
MHA	Architectural Technology Level III		GB SoCal	Courses
MHA	Architectural Technology Level II		GB SoCal	Courses
MHA	Landscape Irrigation		GB SoCal	Courses
MHA	Landscape & Park Maintenanc		GB SoCal	Courses
MHA	Landscape Design & Construction		GB SoCal	Courses
MHA	Tree Care & Maintenanc		GB SoCal	Courses
EE	AC/Refrigeration		CV Green TOP Codes	n/c
EE	Industrial electronics, agriculture power equipment		Green Econ Scan	n/c
Mt. San Jacinto				
MHA	Landscaping Operations		GB SoCal	Courses

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EWERE	Program Name	College	Source	Degree/Cert/Courses
SUEM 100	Our Sustainable Future			Pending - TBO Fall 2010
SUEM 101	Fundamentals of Energy Assessment			Pending - TBO Fall 2010
SUEM 110	Managing Sustainability Business Practices			Pending - TBO Fall 2010
ENGR 115	Introduction to Solar, Wind and Manufacturing			Pending - TBO Fall 2010
ENGR 116	Energy Efficiency and Construction Methods			Pending - TBO Fall 2010
ENGR 114	Machine Tool Technology			Pending - TBO Fall 2010
ENGR 107	Total Quality Management			Pending - TBO Fall 2010
ENGR 117	Photovoltaic Installation			Pending - TBO Fall 2010
ENGR 118	Solar Thermal Installation			Pending - TBO Fall 2010
ENGR 119	Small Wind Installation			Pending - TBO Fall 2010
	Photovoltaic Technology			Pending - TBO Fall 2010
	Solar Thermal Technology			Pending - TBO Fall 2010
	Small Wind Technology			Pending - TBO Fall 2010
	Green Collar Manufacturing			Pending - TBO Fall 2010
	Sustainable Energy Management for Business			Pending - TBO Fall 2010
RE	Environmental sciences, GIS, alternative fuels		Green Econ Scan	n/c
WE	Water Technology		CV Green TOP Codes	n/c
Napa Valley				
RE	PV Solar Installer		Bay Solar	(Planned)
EE	Energy, the Environment & Sustainability		Bay EE Scan	Courses
MHA	Natural resources		Green Econ Scan	n/c
Ohlone				
RE	PV Solar Installation		Bay Solar	(Planned)
RE	Natural resources, environmental studies		Green Econ Scan	n/c
Orange Coast				
EE	Design Drafting: Electro-Mechanical Heating & Air Conditioning: HVAC		Utilities Scan	Certificate
EE	Technology Architectural Technology: Architectural		GB SoCal	Certificate
MHA	Drafting		GB SoCal	Certificate
MHA	Architectural Drafting & Design		GB SoCal	Certificate
MHA	Architecture		GB SoCal	Certificate

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Construction Technology: Master Construction Specialist		GB SoCal	Certificate
MHA	Construction Technology: Basic Construction Practices		GB SoCal	Certificate
MHA	Residential Utilities		GB SoCal	Certificate
MHA	Construction Basics		GB SoCal	Certificate
MHA	Introduction to Construction		GB SoCal	Certificate
MHA	General Contracting & Dev. Construction Tech: Residential		GB SoCal	Certificate
MHA	Construction Development		GB SoCal	Certificate
MHA	Construction Field Mgmt		GB SoCal	Certificate
RE	Solar Energy Installation		COE Director	Certificate
EE	Civil engineering, natural resources, machinist		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Oxnard				
EE	HVAC		CV Green TOP Codes	n/c
MHA	Environmental science		Green Econ Scan	n/c
Palo Verde				
MHA	Welding, environmental engineer, automotive technician		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Palomar				
MHA	Sound Technician Apprenticeship Apprentice Sound & Communications		GB SoCal	Associate Degree
MHA	Systems Installer		GB SoCal	Associate Degree
MHA	Architectural Drafting Technology		GB SoCal	Associate Degree
EE	Design Drafting: Electro-Mechanical		Utilities Scan	Certificate
EE	Apprentice Inside Wireman		Utilities Scan	Certificate/Degree
EE	Apprentice Electrician		Utilities Scan	Certificate/Degree
MHA	Sound Technician Apprenticeship		Utilities Scan	Certificate/Degree
MHA	Apprentice Sound & Communications Installer		Utilities Scan	Certificate/Degree
EE	Apprentice Electrician		GB SoCal	Associate Degree
MHA	Apprentice Inside Wireman		GB SoCal	Associate Degree
MHA	Public Works		Infrastructure Scan	Associate Degree

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EWERE	Program Name	College	Source	Degree/Cert/Courses
WE	Water Technology Home Energy Rating System Program (HERS)		COE Director CHEERS	n/c n/c
WE	Wastewater Technology Education		CV Green TOP Codes	n/c
Pasadena City				
MHA	Building Construction Drafting: CAD Designer		GB SoCal	Associate Degree
MHA	Architectural/Engineering/Construct Drafting: CAD Designer		GB SoCal	Courses
MHA	Architectural/Engineering/Construct Drafting: CAD Modeling & Animation -		GB SoCal	Courses
MHA	Architecture/Eng. Cons		GB SoCal	Courses
MHA	Building, welding, carpentry, automotive technician		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Pierce				
MHA	Nursery technician, horticulture, natural resources, environmental		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
Porterville				
MHA	Agricultural production		Green Econ Scan	n/c
Redwoods				
EE	Restoration/Retrofitting		N/Far N	Courses
EE	Green Technology/Construction Trades		N/Far N	Courses
RE	Photovoltaic		N/Far N	Courses
WE	Water Treatment & Distribution		N/Far N	Courses
WE	Wastewater management		N/Far N	Courses
Reedley				
MHA	Metal working, horticulture, mechanized agriculture, agriculture te		Green Econ Scan	n/c
Rio Hondo				
MHA	Architectural Computer Assisted Design & Drawing		GB SoCal	Associate Degree
MHA	Architecture		GB SoCal	Associate Degree
MHA	Building, welding, carpentry, heavy equipment, environmental tec		Green Econ Scan	n/c

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EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
WE	: Water Efficiency	44	Certificate/Degree	7
MHA	= May Have Application	271	Courses (Planned)	107 13
			n/c = Non-Credit Course	199

EWERE	Program Name	College	Source	Degree/Cert/Courses
Riverside City				
EE	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
MHA	Architecture		GB SoCal	Associate Degree
MHA	Architectural Graphics		GB SoCal	Courses
EE	Building, welding, automated systems engineering		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Sac City				
EE	HVAC Bldg Commissioning		N/Far N	Certificate
RE	Renewable & Sustainable Energy Water & Wastewater Treatment Plant		N/Far N	Certificate
WE	Operation Water & Wastewater Treatment Plant		N/Far N	Certificate
WE	Technician		N/Far N	Certificate
EE	HVAC Bldg Commissioning		N/Far N	Courses
RE	Aeronautics/Biodiesel for Aircraft Ground-Based Transportation		N/Far N	Courses
MHA	Surveying		Infrastructure Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
MHA	Civil engineering, ecology, railroad operations		Green Econ Scan	n/c
Saddleback				
MHA	Horticulture, ecology, automotive technician, construction inspecti		Green Econ Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
MHA	Architectural Drafting		GB SoCal	Certificate
MHA	General Landscape Design		GB SoCal	Courses
San Bernardino Valley				
EE	Air Conditioning & Refrigeration		GB SoCal	Associate Degree
MHA	Architectural Technology		GB SoCal	Associate Degree
WE	Water Supply Technology		Curricunet	Certificate
WE	Wastewater Treatment		Curricunet	Certificate
WE	Water Distribution		Curricunet	Certificate
WE	Water Treatment		Curricunet	Certificate
EE	Electrical Power Technology		Utilities Scan	Certificate/Degree
MHA	Computer-Aided Drafting Tech		GB SoCal	Courses

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Green College Master Course List

n/c=Non-Credit Courses

EWERE Grouping		Count	Degree/Certificate/Courses, etc.	Count
EE	: Energy Efficiency	163	Associate Degree	102
RE	: Renewable Energy	52	Certificate	103
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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Metal working & welding, automotive technician		Green Econ Scan	n/c
San Diego City				
	Air Conditioning, Heating & Advanced Refrigeration		GB SoCal	Associate Degree
EE	Electricity Lineman		Utilities Scan	Associate Degree
	Heating, Ventilation & Air Conditioning Apprenticeship		GB SoCal	Associate Degree
EE	Construction Electronic Systems Technician Option		GB SoCal	Associate Degree
MHA	Construction Trades - Electrical Trade Option		GB SoCal	Associate Degree
MHA			GB SoCal	Associate Degree
EE	Basic Refrigeration & Control Systems		GB SoCal	Certificate
EE	Electrical Control Systems		Utilities Scan	Certificate
EE	Electrical Systems and Power Transmission Lineman		Utilities Scan	Certificate
EE	Electrical Trade Option		Utilities Scan	Certificate
EE	Electricity		Utilities Scan	Certificate
EE	Electronic Systems Technician Option		Utilities Scan	Certificate
EE	Industrial Electrician Apprenticeship		Utilities Scan	Certificate
EE	SDG&E Apprenticeship		Utilities Scan	Certificate
MHA	Garden Design		GB SoCal	Certificate
	Heating, Ventilation & AC Refrigeration Systems Design		GB SoCal	Courses
EE	Stationary Engineering Hospital & Gen. Maintenance Tech.		GB SoCal	Courses
MHA	Related Courses		Solar Tech	Courses
RE	Engineering Technology		Infrastructure Scan	n/c
MHA	Mobile Solar Lab		COE Director	n/c
RE				
San Diego Mesa				
MHA	Architecture: Survey		GB SoCal	Associate Degree
MHA	Landscape Architecture Technician		GB SoCal	Associate Degree
MHA	Architecture Technician		GB SoCal	Associate Degree
MHA	Construction Mgmt		GB SoCal	Associate Degree

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Architectural Technician		GB SoCal	Certificate
MHA	Architecture (Transfer)		GB SoCal	Certificate
MHA	Landscape Architecture Technician		GB SoCal	Certificate
MHA	Architecture: Transfer		GB SoCal	Courses
San Diego Miramar				
MHA	Heavy equipment operations, diesel technology		Green Econ Scan	n/c
San Joaquin Delta				
EE	Refrigeration		GB SoCal	Courses
EE	Heating & Air Conditioning: Refrigeration		GB SoCal	Courses
MHA	Building, welding, carpentry, horticulture, wastewater engineering		Green Econ Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Heavy Equipment Maintenance		Infrastructure Scan	n/c
MHA	Heavy Equipment Operation		Infrastructure Scan	n/c
San Jose City				
EE	HVAC/Commercial HVAC		Bay EE Scan	Courses
RE	PV Solar Installer		Bay Solar	Courses
EE	AC/Refrigeration		CV Green TOP Codes	n/c
EE	Building, welding, carpentry, horticulture, HVAC, machinist		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
San Mateo				
EE	Electronics Technology		Bay EE Scan	Associate Degree
EE	Electronics Technology		Bay EE Scan	Certificate
EE	EE Related Courses		Bay EE Scan	Courses
EE	AC/Refrigeration		CV Green TOP Codes	n/c
MHA	Building, welding, carpentry, plumbing		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
Santa Ana				
MHA	Welding, automotive technician		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Heavy Equipment Maintenance		Infrastructure Scan	n/c
MHA	Heavy Equipment Operation		Infrastructure Scan	n/c

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Architectural/Civil Eng/Const Drafting & Design		GB SoCal	Associate Degree
Santa Barbara City				
MHA	Ecosystem restoration, horticulture, environmental studies		Green Econ Scan	n/c
MHA	Environmental Studies		Infrastructure Scan	n/c
WE	Water Science		CV Green TOP Codes	n/c
Santa Monica				
RE	Solar Related Courses		LA Solar	(Planned)
RE	Solar Photovoltaic		LA Solar	Courses
Santa Rosa Jr.				
Architecture & Construction Technology:				
EE	Construction Mgmt		Bay EE Scan	Associate Degree
MHA	Surveying		Infrastructure Scan	n/c
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Sustainable agriculture, welding diesel technology, GIS, environm		Green Econ Scan	n/c
Santiago Canyon				
EE	Apprenticeship: Industrial Electrical		GB SoCal	Associate Degree
EE	Power Lineman		Utilities Scan	Certificate
MHA	Public works, carpentry		Green Econ Scan	n/c
MHA	Surveying		Infrastructure Scan	n/c
MHA	Heavy Equipment Maintenance		Infrastructure Scan	n/c
MHA	Heavy Equipment Operation		Infrastructure Scan	n/c
MHA	Public Works		Infrastructure Scan	n/c
Water Distribution and Water Treatment				
WE	Options		COE Director	n/c
WE	Wastewater/Environmental Sanitation		COE Director	n/c
Shasta				
EE	Related Courses		N/Far N	Courses
MHA	Horticulture, forestry, automotive technician, natural resources, a		Green Econ Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
WE	Water/Wastewater Treatment		CV Green TOP Codes	n/c
Sierra				

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EWERE	Program Name	College	Source	Degree/Cert/Courses
	Photovoltaic System Installation & Design		N/Far N	Certificate
RE	Watershed Ecology Technician		N/Far N	Certificate
WE	Related Courses		N/Far N	Courses
EE	Horticulture, metalworking, GIS, CAD environmental		Green Econ Scan	n/c
MHA	Construction Crafts Technology		Infrastructure Scan	n/c
Siskiyou				
EE	Related Courses		N/Far N	Courses
Skyline				
RE	PV Solar Installer		Bay Solar	Courses
Solano				
MHA	Horticulture, hazardous waste, wastewater engineering and operations		Green Econ Scan	n/c
WE	Water and Wastewater Technology		CV Green TOP Codes	n/c
Southern				
MHA	Architecture Technology		GB SoCal	Courses
MHA	Architecture		GB SoCal	Courses
Southwestern				
MHA	Construction Mgmt		GB SoCal	Associate Degree
MHA	Landscape Architecture		GB SoCal	Associate Degree
MHA	Landscape Occupations		GB SoCal	Associate Degree
MHA	Landscape Design		GB SoCal	Courses
EE	Environmental management, environmental technology		Green Econ Scan	n/c
MHA	Construction Inspection			Associate Degree/Certification
Taft				
MHA	Automotive specialist		Green Econ Scan	n/c
Ventura				
EE	Design Drafting: Electronic		Utilities Scan	Certificate
MHA	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
MHA	Engineering Technology		Infrastructure Scan	n/c
WE	Water Science		CV Green TOP Codes	n/c
MHA	Construction Tech - Const Mgmt Option		GB SoCal	Associate Degree

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EWERE	Program Name	College	Source	Degree/Cert/Courses
MHA	Env. Horticulture: Landscape Construction & Management		GB SoCal	Associate Degree
MHA	Env. Horticulture: Landscape Architecture & City		GB SoCal	Associate Degree
MHA	Landscape Management		GB SoCal	Courses
Victor Valley				
EE	Building and construction trades, horticulture		Green Econ Scan	n/c
EE	Civil and Construction Mgmt Technology		Infrastructure Scan	n/c
EE	Construction Crafts Technology		Infrastructure Scan	n/c
MHA	Public Works		Infrastructure Scan	n/c
West Hills Coalinga				
MHA	Precision agriculture		Green Econ Scan	n/c
West Los Angeles				
EE	Power plant management and operations		Green Econ Scan	n/c
West Valley				
MHA	GIS		Green Econ Scan	n/c
Yuba				
RE	Alternative Fuels		N/Far N	Courses
RE	Hybrid Technology in Automotive		N/Far N	Courses
EE	Welding, horticulture, agriculture, industrial electricity, hazardous		Green Econ Scan	n/c

LIST OF CALIFORNIA APPRENTICESHIP PROGRAMS - DIVISION OF APPRENTICESHIP STANDARDS (DAS)

INDUSTRY	NAME	NO. OF APPRENTICE
Asbestos Workers Committees	Northern California Heat & Frost Insulators And Allied Workers J.A.C. (Alameda)	145
Asbestos Workers Committees	Southern California Heat & Frost Insulators & Allied Workers J.A.C. (Los Angeles)	124
Automotive Committees	Alameda & Contra Costa Counties Automotive Repair Trades J.A.C. (Alameda)	52
Automotive Committees	Central Valley Automotive & Machinist J.A.C. (Fresno)	40
Automotive Committees	City Of San Jose Vehicle Equipment Repair Trades Apprenticeship Committee (Santa Clara)	3
Automotive Committees	Sacramento Automotive J.A.C. (Sacramento)	24
Automotive Committees	San Francisco, Marin, San Mateo & Northern Santa Clara Counties Automotive Repair Trades J.A.C. (Alameda)	33
Automotive Committees	San Joaquin Valley Automotive Trades J.A.C. (San Joaquin)	63
Automotive Committees	Santa Clara & San Benito Counties Machinist Joint Apprenticeship And Training Committee (Santa Clara)	3
Automotive Committees	Santa Clara County Automotive Repair Trades J.A. & E.A.C. (Santa Clara)	65
Automotive Committees	Sonoma County Automotive & Marin & Sonoma Counties Machinist J A C (Sonoma)	1
Barber & Cosmetology Committees	Cosmetica - Cosmetology And Barbering U.A.C. (Los Angeles)	103
Barber & Cosmetology Committees	Cosmetology Unilateral Apprenticeship Committee (Los Angeles)	336
Barber & Cosmetology Committees	East Bay & South Counties Barbering & Cosmetology U.A.C. (Alameda)	140
Barber & Cosmetology Committees	Greater East Bay Barber & Cosmetologist U.A.C. (Contra Costa)	220
Barber & Cosmetology Committees	Los Angeles County Barbers & Cosmetologist J.A.C. (Los Angeles)	104
Barber & Cosmetology Committees	Northern California Barber And Cosmetology Apprenticeship Committee (Sacramento)	663
Barber & Cosmetology Committees	Orange County Barber & Cosmetology J.A.C. (Orange)	89
Barber & Cosmetology Committees	San Bernardino & Riverside Barbers J.A.T.C. (Riverside)	70
Barber & Cosmetology Committees	San Diego Cosmetology Apprenticeship Committee (San Diego)	53
Boilermaker Committees	Boilermakers Western States Area J.A.C. (Contra Costa)	142
Bricklayer Committees	Bricklayers & Allied Crafts Local 3 J.A.T.& E.C. (Alameda)	108
Bricklayer Committees	Bricklayers & Allied Craftsman Local #4 California J.A.C. (Los Angeles)	114
Bricklayer Committees	Masonry Industry Training Association Of Southern California Bricklayers U.A.C. (Riverside)	4
Bricklayer Committees	San Diego & Imperial Counties Bricklayers & Stone Masons J.A.T.C. (San Diego)	5
Carpentry Committees	Alameda County Carpenters Training Committee (Alameda)	315
Carpentry Committees	Associated Builders & Contractors Golden Gate Chapter Carpentry U.A.C. (Alameda)	37
Carpentry Committees	Central Valley Carpenters Training Committee (Fresno)	147
Carpentry Committees	Contra Costa County Carpenters Training Committee (Alameda)	627
Carpentry Committees	Delta / Yosemite Carpenters Training Committee (Solano)	105
Carpentry Committees	Greater Bay Area Hardwood Floor Layers Training Committee (Santa Clara)	16
Carpentry Committees	Humboldt & Del Norte Counties Carpenters Training Committee (Solano)	8
Carpentry Committees	Innercity Community Unilateral Apprenticeship Committee (San Diego)	54
Carpentry Committees	Los Angeles County Cabinet And Store Fixture Jac (Los Angeles)	33
Carpentry Committees	Los Angeles County Carpenter Floor Workers J.A. & T.C. (Los Angeles)	65
Carpentry Committees	Marin County Carpenters Training Committee (Solano)	48
Carpentry Committees	Monterey County Carpenters Training Committee (Santa Clara)	40
Carpentry Committees	Napa And Solano Counties Carpenters Training Committee (Solano)	153
Carpentry Committees	North Valley Carpenters Training Committee (Solano)	201
Carpentry Committees	Northeastern Butte Carpenters Training Committee (Solano)	15
Carpentry Committees	Northern California Pile Drivers & Bridge Builders (Alameda)	209
Carpentry Committees	San Diego Associated General Contractors J.A.C. (San Diego)	379

INDUSTRY	NAME	NO. OF APPRENTICE
Carpentry Committees	San Francisco Carpentry Training Committee (Alameda)	661
Carpentry Committees	San Mateo County Carpentry Training Committee (Alameda)	152
Carpentry Committees	Santa Clara/San Benito Carpenters Training Committee (Santa Clara)	260
Carpentry Committees	Santa Cruz County Carpenters Training Committee (Santa Clara)	35
Carpentry Committees	Sonoma, Lake & Mendocino Counties Carpenters Training Committee (Solano)	81
Carpentry Committees	South Bay Mill & Cabinet Joint Apprenticeship & Training Committee (Santa Clara)	9
Carpentry Committees	Southern California Acoustical Installer J.A.T.C. (Los Angeles)	235
Carpentry Committees	Southern California Carpentry J.A.T.C. (Los Angeles)	4,884
Carpentry Committees	Southern California Carpentry J.A.T.C. (San Diego) (San Diego)	1
Carpentry Committees	Southern California Modular Furnishings Installer Joint Apprenticeship & Training Committee (Los Angeles)	52
Carpentry Committees	Southern California Pile Drivers J.A.T.C. (Los Angeles)	138
Carpentry Committees	Tahoe Area Carpenters Training Committee (Solano)	17
Carpet, Linoleum & Soft Tile Committees	Northern California Floor Covering J.A.T.C. (Alameda)	504
Carpet, Linoleum & Soft Tile Committees	San Diego Carpet, Linoleum & Floor Covering Industries J.A.C. (San Diego)	9
Carpet, Linoleum & Soft Tile Committees	Southern California Resilient Floor & Decorative Covering Crafts Jatc (Los Angeles)	209
Cement Masons Committees	Northern California Cement Masons J.A.T.C. (Alameda)	149
Cement Masons Committees	San Diego Associated General Contractors J.A.C. (San Diego)	115
Cement Masons Committees	San Diego County Cement Masons J.A.C. (San Diego)	69
Cement Masons Committees	Southern California Cement Masons J.A.C. (Los Angeles)	404
Civil Service Committees	Bureau Of Reclamation Central Valley (Sacramento)	8
Civil Service Committees	California Fire Fighter Joint Apprenticeship Committee (Sacramento)	6,136
Civil Service Committees	California State University & State Employee Trades Council Jatc (Los Angeles)	11
Civil Service Committees	Department Of Park & Recreations (Sacramento)	153
Civil Service Committees	Office Of Training & Personnel Development/Joint Apprenticeship & Training Committee (Sacramento)	8,568
Drywall / Lather Committees	46 Northern California Counties Drywall/Lathing Ja&Tc (Alameda)	854
Drywall / Lather Committees	Innercity Community Unilateral Apprenticeship Committee (San Diego)	33
Drywall / Lather Committees	San Diego Associated General Contractors J.A.C. (San Diego)	137
Drywall / Lather Committees	Southern California Drywall/Lather J.A.T.C. (Los Angeles)	3,455
Drywall Finishing (Taping) Committees	Central Valley Painters, Decorators And Paperhangers J.A.C. (Fresno)	6
Drywall Finishing (Taping) Committees	Painting & Decorating Joint Apprenticeship Training Committee Of The Bay Area, Inc. (Alameda)	122
Drywall Finishing (Taping) Committees	Southern California Drywall Finishers Joint Apprenticeship Training Committee (Los Angeles)	273
Electrical & Electronic Committees	Alameda County J.A.T.C. For The Electrical Inside Wireman Trade (Alameda)	157
Electrical & Electronic Committees	Associated Builders & Contractors Golden Gate Chapter Electrical U.A.C. (Alameda)	140
Electrical & Electronic Committees	Associated Builders & Contractors Of San Diego, Inc. Electrical U.A.C. (San Diego)	181
Electrical & Electronic Committees	Associated Builders & Contractors Of San Diego, Inc., Electronic Systems Technician (Sound Tech.) (San Diego)	21
Electrical & Electronic Committees	Central Valley Electrical J.A.T.C. (Stanislaus)	45
Electrical & Electronic Committees	Communication Workers Of America/American Communication Contractors Association J.A.C. (Santa Clara)	12
Electrical & Electronic Committees	Contra Costa County Electrical J.A.C. (Contra Costa)	160
Electrical & Electronic Committees	Crater Lake Electrical J A T C (Unknown)	50
Electrical & Electronic Committees	Fresno, Madera, Kings & Tulare Counties Electrical Industries Jatc (Fresno)	104
Electrical & Electronic Committees	I.B.E.W. Local Union No. 40 Los Angeles County Chapter Neca J.A.C. (Los Angeles)	31
Electrical & Electronic Committees	Kern County Electrical Joint Apprenticeship & Training Committee (Kern)	147
Electrical & Electronic Committees	Los Angeles County Electrical J.A. & E.T.C. (Los Angeles)	934
Electrical & Electronic Committees	Los Angeles County Intercommunication & Sound J.A.C. (Los Angeles)	99

INDUSTRY	NAME	NO. OF APPRENTICE
Electrical & Electronic Committees	Los Angeles/Ventura Chapter Of A.B.C. Inc. E.U.A.C. (Los Angeles)	213
Electrical & Electronic Committees	Motion Picture Studio Electrician (Journeyman Wireman) J.A.C. (Los Angeles)	18
Electrical & Electronic Committees	Northern California Sound And Communication J.A.T.C. (Santa Clara)	197
Electrical & Electronic Committees	Orange County Electrical (Transportation) J.A.C. (Orange)	24
Electrical & Electronic Committees	Orange County Electrical J.A.C. (Orange)	297
Electrical & Electronic Committees	Orange County Sound Technician Joint Apprenticeship Committee (Orange)	46
Electrical & Electronic Committees	Redwood Empire Electrical J.A.T.C. (Sonoma)	141
Electrical & Electronic Committees	Reno Electricians Jatc For The Electrical Industry (Unknown)	90
Electrical & Electronic Committees	Riverside Area Electrical J. A. C. (San Bernardino)	138
Electrical & Electronic Committees	Riverside, San Bernardino, Mono & Inyo Counties Sound Technician J. A. C. (San Bernardino)	9
Electrical & Electronic Committees	Sacramento Area Electrical J.A.T.C. (Sacramento)	195
Electrical & Electronic Committees	San Bernardino, Mono And Inyo Counties Electrical J. A. C. (San Bernardino)	124
Electrical & Electronic Committees	San Diego County Sound Technicians J.A.C. (San Diego)	26
Electrical & Electronic Committees	San Diego Electrical J.A.T.C. (San Diego)	302
Electrical & Electronic Committees	San Francisco J.A.T.C. For The Electrical Industry - Inside Wireman (San Francisco)	307
Electrical & Electronic Committees	San Joaquin & Calaveras Counties Electrical J.A.T.C. (San Joaquin)	56
Electrical & Electronic Committees	San Luis Obispo Electrical Workers J.A.C. (San Luis Obispo)	30
Electrical & Electronic Committees	San Mateo County J.A.T.C. For The Electrical Construction Industry (San Mateo)	149
Electrical & Electronic Committees	Santa Barbara County Electrical J.A.C. (Santa Barbara)	49
Electrical & Electronic Committees	Santa Clara County Electrical Trades J.A.T.C. (Santa Clara)	305
Electrical & Electronic Committees	Shasta-Butte Electricians J.A.T.C. (Shasta)	13
Electrical & Electronic Committees	So. Calif. Chapter Of A. B. C., Inc. Electronic Systems Technician/Voice Data Video U. A. C. (Orange)	9
Electrical & Electronic Committees	Solano & Napa Counties Electricians J.A.T.C. (Napa)	111
Electrical & Electronic Committees	Southern California Chapter Of The Associated Builders And Contractors Inc. Electrical U.A.C. (Orange)	382
Electrical & Electronic Committees	Southern California Transportation Systems Electrician Jac (Los Angeles)	117
Electrical & Electronic Committees	Tri-County J.A.T.C. For The Electrical Industry (Monterey)	54
Electrical & Electronic Committees	Ventura County Electrical J.A.T.C. (Ventura)	73
Electrical & Electronic Committees	W.E.C.A. Electrical Apprenticeship And Training Committee (Sacramento)	12
Electrical & Electronic Committees	Wbfaa Uatc (Los Angeles)	93
Electrical & Electronic Committees	Western Electrical Contractors Assoc., Inc. Apprenticeship And Training Committee (Sacramento)	522
Electrical & Electronic Committees	Western Electrical Contractors Association & Training Committee (Sacramento)	40
Elevator Committees	Northern California Elevator Industry Joint Apprenticeship And Training Committee (San Francisco)	357
Elevator Committees	Southern California Elevator Constructor Joint Apprenticeship And Training Committee (Los Angeles)	754
Engineer Committees	Associated General Contractors Of San Diego, Inc. Construction Equipment Operator U.A.C. (San Diego)	63
Engineer Committees	J.A.C. For The Operating Engineers For The 46 Counties Of Northern California (Sacramento)	27
Engineer Committees	Joint Apprenticeship Committee For Operating Engineers For The 46 Northern Counties In California (Sacramento)	544
Engineer Committees	Northern California & Northern Nevada Stationary Engineers J.A.C. (San Francisco)	232
Engineer Committees	Operating & Maintenance Engineers Apprenticeship & Training Trust For Southern California (Los Angeles)	112
Engineer Committees	Southern California Operating Engineers J. A. C. (Los Angeles)	391
Glazier & Glass Workers Committees	Northern California District Council 16 Glaziers, Architectural Metal And Glass Workers Jatc (Alameda)	425
Glazier & Glass Workers Committees	San Diego & Imperial Counties Glaziers J.A.C. (San Diego)	42
Glazier & Glass Workers Committees	Southern California Glaziers & Glassworkers Industry J.A.C. (Orange)	343
Health Services Committees	State Of California . Psychiatric Tech Unit 18 J.A.C. (Sacramento)	47
Heating Ventilation & Air Conditioning	Bay Area Sheet Metal J.A.C. (Alameda)	115

INDUSTRY	NAME	NO. OF APPRENTICE
Heating Ventilation & Air Conditioning	Fresno Area Plumbers, Pipe & Refrigeration Fitters J.A.T.C. (Fresno)	33
Heating Ventilation & Air Conditioning	Fresno Sheet Metal Workers J.A.T.C. (Fresno)	1
Heating Ventilation & Air Conditioning	Humboldt, Del Norte & Trinity Sheet Metal J.A.C. (Sonoma)	1
Heating Ventilation & Air Conditioning	Inland Refrigeration J.J. & A.T.C. (San Bernardino)	42
Heating Ventilation & Air Conditioning	J. A. & T. C. , Plumbing, Pipe Fitting & Refrigeration Industry Of San Mateo (San Mateo)	56
Heating Ventilation & Air Conditioning	Kern, Inyo & Mono Counties Plumbing, Pipefitter & Refrigeration/Air Conditioning Mechanic J.A.T.C. (Kern)	11
Heating Ventilation & Air Conditioning	Los Angeles & Orange Counties Air-Conditioning & Refrigeration J.J.A.T.C. (Los Angeles)	189
Heating Ventilation & Air Conditioning	Monterey, Santa Cruz And San Benito Counties Sheet Metal Joint Apprenticeship Committee (Monterey)	6
Heating Ventilation & Air Conditioning	Motion Picture Studio Electrician (Journeyman Wireman) J.A.C. (Los Angeles)	3
Heating Ventilation & Air Conditioning	Napa/Solano Counties Plumbers And Steamfitters J.A.T.C. (Solano)	1
Heating Ventilation & Air Conditioning	Northern California Valley Sheet Metal Industry J.A.C. (Sacramento)	31
Heating Ventilation & Air Conditioning	Pipe Trades J.A.T.C. Of Santa Clara And San Benito Counties (Santa Clara)	93
Heating Ventilation & Air Conditioning	Plumbing & Pipefitting Industry Of Sacramento & Yolo District J.A.C. (Sacramento)	68
Heating Ventilation & Air Conditioning	San Joaquin- Stanislaus Area Plumbers, Pipe & Refrigeration Fitters, J.A.T.C. (Stanislaus)	4
Heating Ventilation & Air Conditioning	So. Calif. Chapter Of A.B.C., Inc. Heating, Ventilation & Air Cond. U. A. C. (Orange)	1
Heating Ventilation & Air Conditioning	Southern California Sheet Metal J.A.&T.C. (Los Angeles)	2
Heating Ventilation & Air Conditioning	The Joint Apprenticeship And Training Committee Of The Plumbing And Pipefitting Ua Local38 (San Francisco)	37
Heating Ventilation & Air Conditioning	Tri Counties Sheet Metal & Air Conditioning Industry J.A.C. (Ventura)	2
Heating Ventilation & Air Conditioning	United Association Local Union 342 J.A.T.C. (Contra Costa)	104
Heating Ventilation & Air Conditioning	Yuba, Sutter & Colusa Counties Plumbers J.A.C. (Sutter)	10
Iron & Steel Workers Committees	International Assoc Of Bridge, Structural,Ornamental& Reinforcing Ironworkers Local 155 Jatc (Fresno)	92
Iron & Steel Workers Committees	Intl Assoc Bridge, Structural, Ornamental & Reinforcing Ironworker L416 J.A.T.C. (Orange)	289
Iron & Steel Workers Committees	Int'L Association Of Bridge, Structural, Ornamental And Reinforcing Ironworkers, Local 118 Jatc (Sacramento)	164
Iron & Steel Workers Committees	Intl. Assoc. Bridge, Structural, Ornamental & Reinforcing Ironworker L433 J.A.T.C. (Orange)	539
Iron & Steel Workers Committees	Intl. Assoc. Of Bridge, Structural,Ornamental & Reinforcing Ironworkers Local 378 Oakland J.A.T.C. (Solano)	417
Iron & Steel Workers Committees	Intl.Assc.Of Bridge, Structural,Ornamental & Reinforcing Ironworkers Local 377 San Francisco Jatc (Solano)	236
Iron & Steel Workers Committees	Intl.Assoc. Of Bridge,Structural,Ornamental & Reinforcing Ironworkers Local 377 Santa Clara J.A.T.C. (Solano)	150
Iron & Steel Workers Committees	Northern California Shop Ironworkers J.A.C. (San Joaquin)	57
Iron & Steel Workers Committees	San Diego Bridge, Structural, Ornamental And Reinforcing Ironworkers J.A.T.C Local 229. (San Diego)	168
Laborers Committees	Associated Builders & Contractors Golden Gate Chapter Construction Craft Laborer U.A.C. (Alameda)	25
Laborers Committees	Associated General Contractors Of America, San Diego Chapter (San Diego)	147
Laborers Committees	Engineering & Utility Contractors Association & Automotive Marine & Speciality Painters Local #1176 (Alameda)	5
Laborers Committees	Laborers Southern California Joint Apprenticeship Committee (Los Angeles)	963
Laborers Committees	Northern California District Council Of Laborers Hod Carrier J.A.C. (Contra Costa)	22
Laborers Committees	Northern California District Council Of Laborers Construction Craft Laborers J.A.T.C. (Contra Costa)	640
Laborers Committees	Northern California District Council Of Laborers Parking & Highway Improvement Painter (Laborer) Jatc (Contra Costa)	26
Laborers Committees	Southern California Bricktenders J.A.C (Los Angeles)	11
Laborers Committees	Southern California Pavement Striper, Road Slurry, Seal Coat & Highway Maintenance Jac (Riverside)	64
Laborers Committees	Southern California Plaster Tenders J.A.C. (Los Angeles)	53
Lineman Committees	Cal-Nev Power Lineman J.A.T.C. (Riverside)	249
Lineman Committees	Irby Construction Company Line Erectors Apprenticeship Program (Imperial)	11
Machinists And Tool & Die Committees	California North Bay Chapter National Tooling And Machining Assoc. (Sonoma)	30
Machinists And Tool & Die Committees	Five Bay Counties Mill And Cabinet Joint Apprenticeship And Training Committee (Alameda)	22
Machinists And Tool & Die Committees	Santa Clara & San Benito Counties Machinist Joint Apprenticeship And Training Committee (Santa Clara)	16

INDUSTRY	NAME	NO. OF APPRENTICE
Machinists And Tool & Die Committees	Southern California Tool & Die Mold, Machinist & Metal Working Trades Apprenticeship Committee (Los Angeles)	56
Manufacturing Committees	San Joaquin And Sacramento Area Mill Cabinet J.A.T.C. (San Joaquin)	14
Meat Cutter Committees	Humboldt & Del Norte Meatcutters J.A.C. (San Mateo)	2
Meat Cutter Committees	Oakland & Vicinity Meat Industry J.A.C. (Alameda)	27
Meat Cutter Committees	Orange County-Harbor Area Meat Cutter J.A.C. (Orange)	46
Meat Cutter Committees	San Francisco Meatcutters J.A.C. (San Mateo)	70
Meat Cutter Committees	Santa Clara County Meat Cutters J.A.T.C. (Santa Clara)	65
Milwright Committees	Millwrights Training Committee For Northern California (Alameda)	301
Milwright Committees	Southern California Millwrights & Machinery Erectors J.A.T.C. (Los Angeles)	331
Painting & Decoration Committees	Associated Builders & Contractors Golden Gate Chapter Painting U.A.C. (Alameda)	53
Painting & Decoration Committees	Central Valley Painters, Decorators And Paperhangers J.A.C. (Fresno)	31
Painting & Decoration Committees	Engineering & Utility Contractors Association & Automotive Marine & Speciality Painters Local #1176 (Alameda)	5
Painting & Decoration Committees	Painting & Decorating Joint Apprenticeship Training Committee Of The Bay Area, Inc. (Alameda)	495
Painting & Decoration Committees	Paper & Paperhanger Decorators J.A.C. (Los Angeles)	456
Painting & Decoration Committees	San Diego Associated General Contractors J.A.C. (San Diego)	138
Painting & Decoration Committees	Southern California Drywall Finishers Joint Apprenticeship Training Committee (Los Angeles)	273
Painting & Decoration Committees	Southern California Painting And Decorating Contractors Of America, Uac (Orange)	70
Plasterers Committees	Bay Area Plastering Industry J.A.T.C. (San Mateo)	52
Plasterers Committees	Northern California Plasterers J.A.T.C. (Yolo)	51
Plasterers Committees	Southern California Plastering Apprenticeship Trust & Joint Apprenticeship Committee (Orange)	130
Plasterers Committees	Southern California Plastering Institute Apprenticeship Trust & Joint Apprenticeship Committee (Los Angeles)	106
Plumbing Committees	Associated Builders & Contractors Golden Gate Chapter Plumbing U.A.C. (Alameda)	31
Plumbing Committees	Associated Builders & Contractors Of San Diego, Inc. Plumbing / Pipefitting U.A.C. (San Diego)	74
Plumbing Committees	California American Fire Sprinkler Association, U.A.C. (Alameda)	187
Plumbing Committees	Fresno Area Plumbers, Pipe & Refrigeration Fitters J.A.T.C. (Fresno)	48
Plumbing Committees	Glendale, Burbank, San Fernando Valley & Antelope Valley Plumbers & Steamfitters J.A.T.C. (Los Angeles)	351
Plumbing Committees	J. A. & T. C. , Plumbing, Pipe Fitting & Refrigeration Industry Of San Mateo (San Mateo)	103
Plumbing Committees	Kern, Inyo & Mono Counties Plumbing, Pipefitter & Refrigeration/Air Conditioning Mechanic J.A.T.C. (Kern)	40
Plumbing Committees	Landscape & Irrigation Fitter Of Southern California J.A.T.C. (Los Angeles)	222
Plumbing Committees	Long Beach Plumbers Jatc (Los Angeles)	58
Plumbing Committees	Los Angeles & Vicinity Steamfitters & Industrial Pipefitter J.A.T.C. (Los Angeles)	241
Plumbing Committees	Los Angeles Metropolitan Plumbers J.A.T.C. (Los Angeles)	296
Plumbing Committees	Monterey & Santa Cruz Counties Plumbers & Pipefitters J.A.T.C. (Monterey)	31
Plumbing Committees	Napa/Solano Counties Plumbers And Steamfitters J.A.T.C. (Solano)	81
Plumbing Committees	Northern California Local 355 J.A.T.C. (Solano)	29
Plumbing Committees	Orange County Plumbers & Steamfitters Joint Apprenticeship & Training Committee (Orange)	214
Plumbing Committees	Oregon Sw Washington/Nw California Plumbers J.A.T.C. (Humboldt)	9
Plumbing Committees	P.H.C.C. Of The Greater Sacramento Area Plumbers U.A.C. (Sacramento)	96
Plumbing Committees	Pipe Trades J.A.T.C. Of Santa Clara And San Benito Counties (Santa Clara)	204
Plumbing Committees	Plumbing & Pipefitting Industry Of Sacramento & Yolo District J.A.C. (Sacramento)	153
Plumbing Committees	Pomona Valley Plumbers & Steamfitters J.A.C. (San Bernardino)	253
Plumbing Committees	Reno Plumbers & Fitters J.A.T.C. (Unknown)	125
Plumbing Committees	Road Sprinkler Fitters U. A. Local 669 J.A.T.C. (Unknown)	172
Plumbing Committees	San Bernardino & Riverside Counties Plumbing & Steamfitter Trade J.A.C. (San Bernardino)	132

INDUSTRY	NAME	NO. OF APPRENTICE
Plumbing Committees	San Diego & Imperial Counties Pipe Trades J.A.C. (San Diego)	215
Plumbing Committees	San Joaquin- Stanislaus Area Plumbers, Pipe & Refrigeration Fitters, J.A.T.C. (Stanislaus)	99
Plumbing Committees	San Luis Obispo County Plumbing J.A.C. (San Luis Obispo)	29
Plumbing Committees	Santa Barbara County Pipe Trades J.A.C. (Santa Barbara)	46
Plumbing Committees	Southern California Chapter Of The Associated Builders & Contractors, Inc. Plumbers U.A.C. (Orange)	86
Plumbing Committees	Sprinkler Fitters U. A. Local 483 Joint Apprenticeship Committee (Alameda)	229
Plumbing Committees	Sprinkler Fitters U.A. Local 709 J.A.C. (Los Angeles)	171
Plumbing Committees	The Joint Apprenticeship And Training Committee Of The Plumbing & Pipe Fitting Industry Ua Local 38 (San Francisco)	240
Plumbing Committees	United Association Local Union 342 J.A.T.C. (Contra Costa)	224
Plumbing Committees	Ventura County Plumbing & Pipefitting J.A.C. (Ventura)	62
Plumbing Committees	Yuba, Sutter & Colusa Counties Plumbers J.A.C. (Sutter)	50
Roofers Committees	Central Valley Roofers, Waterproofers & Allied Workers J.A.T.C. (Fresno)	332
Roofers Committees	East Bay And North Bay Counties Roofers/Waterproofers J.A.T.C. (Alameda)	487
Roofers Committees	Independent Roofing Contractors Of California, U.A.C. (Alameda)	236
Roofers Committees	San Diego & Imperial Counties Slate, Tile & Composition Roofer J.A.C. (San Diego)	39
Roofers Committees	Santa Clara Valley Area Roofers J.A.T.C. (Santa Clara)	189
Roofers Committees	Southern California Roofers Waterproofers J.A.C. (Los Angeles)	554
Roofers Committees	Valley Roofers & Waterproofers J.A.T.C. (Sacramento)	70
Roofers Committees	West Bay Counties Roofers And Waterproofers J.A.T.C. (Alameda)	233
Sheet Metal Committees	Air Conditioning Trades Association U.A.C. (San Joaquin)	48
Sheet Metal Committees	Associated Builders & Contractors Of San Diego, Inc. Sheet Metal U.A.C. (San Diego)	74
Sheet Metal Committees	Bay Area Sheet Metal J.A.C. (Alameda)	558
Sheet Metal Committees	Fresno Sheet Metal Workers J.A.T.C. (Fresno)	57
Sheet Metal Committees	Humboldt, Del Norte & Trinity Sheet Metal J.A.C. (Sonoma)	6
Sheet Metal Committees	Kern & Northern Los Angeles Counties Air Conditioning & Sheet Metal Workers J.A.T.C. (Kern)	41
Sheet Metal Committees	Modesto Area Sheet Metal Workers Jatc (Stanislaus)	20
Sheet Metal Committees	Monterey, Santa Cruz And San Benito Counties Sheet Metal Joint Apprenticeship Committee (Monterey)	26
Sheet Metal Committees	Northern California Valley Sheet Metal Industry J.A.C. (Sacramento)	140
Sheet Metal Committees	San Diego Sheet Metal J.A.C. (San Diego)	142
Sheet Metal Committees	South. Calif. Chapter Of Associated Builders And Contractors, Inc. Sheet Metal U. A. C. (Orange)	13
Sheet Metal Committees	Southern California Sheet Metal J.A.&T.C. (Los Angeles)	471
Sheet Metal Committees	Southern California Sheet Metal J.A.&T.C. (Los Angeles)	172
Sheet Metal Committees	Tri Counties Sheet Metal & Air Conditioning Industry J.A.C. (Ventura)	60
Surveyor Committees	Northern California Surveyors J.A.C. (Alameda)	87
Surveyor Committees	Southern California Surveyors J.A.C. (San Bernardino)	154
Tile Layer/Setter Committees	Bricklayers & Allied Crafts Local 3 J.A.T.& E.C. (Alameda)	28
Tile Layer/Setter Committees	Joint Apprenticeship Committee Tile & Terrazzo Industry (Los Angeles)	201
Tile Layer/Setter Committees	Northern California Tile Industry Joint Apprenticeship Training Committee (Alameda)	94
Tile Layer/Setter Committees	Sacramento Area Tile, Terrazzo & Marble Trades J.A.T.C. (Sacramento)	28
Tile Layer/Setter Committees	Terrazzo Finisher Jatc For Southern California (Los Angeles)	34

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Contractor Name	Approved Amount	# to Train	Clean/Green Description
ABBOTT VASCULAR, INC.	\$1,470,600	1,900	Installing large solar power system to produce electricity, supporting Governor's energy & environmental policies. Member of EPA Climate Leaders, a partnership to reduce greenhouse gas emissions.
Allan Company	\$336,000	200	Recycles over one million tons of recovered fiber, aluminum, plastics, non-ferrous metals, and glass annually.
American Biodiesel, Inc. dba Community Fuels	\$93,600	15	Produces quality biodiesel: a clean, renewable fuel that reduces dependence on foreign oil, lowers the carbon intensity of transportation fuels and protects the environment.
AMERICAN LICORICE COMPANY	\$63,162	121	ALC has been recognized by CA Integrated Waste Management Board for waste reduction and energy conservation since 2002. Recycles candy and uses it for animal feed and recycles materials; also received a \$200,000 rebate from PG E for energy savings.
AMMUNITION ACCESSORIES, INC dba RCBS	\$72,864	46	Green Operations - recycling casings which lowers the cost per use and encourages re-use of materials.
Anritsu Company	\$288,000	400	Anritsu's focus on greening its business has resulted in product development & manufacturing process changes. Environmental awareness is a company-wide initiative. They intend to offer training on ways to promote energy saving, electricity conservation & efficiency, reduction of waste, and using healthier cleaning solutions.
Applied Materials, Inc	\$1,983,200	2,200	Will manufacture machines that create cost-effective solar cells for semiconductor industry. Uses nanotechnology.
APPRENTICE & JOURNEYMEN TRAINING TRUST FUND OF THE SOUTHERN CALIFORNIA PLUMBING AND PIPING INDUSTRY	\$535,125	332	This project will retrain journey-level workers in California's construction trades to transition into the new green economy.
ASTRO PAK CORPORATION	\$65,280	64	Responding to industry needs for a reduction in contaminants, Astro Pak developed a green "passivation" procedure that increases the natural resistance to rust inherent in stainless steel.
Aviano Group, Inc.	\$48,360	15	Civil engineering firm provides energy and environmental design services for green building.
Battery Systems, Inc.	\$74,700	166	Company recycles, distributes and sells batteries and energy panels.
BCI COCA-COLA BOTTLING COMPANY OF LOS ANGELES	\$194,400	180	Green Business Operations -- Installed solar power generating panels, uses energy efficient vending equipments, utilizes hybrid vehicles, and recycles. Last year, company replaced its entire lighting system with a high-intensity fluorescent lighting technology.
BEACON MANAGEMENT, INC.	\$8,712	9	Electronic recycling
Best interiors, Inc	\$63,360	44	In order to compete in a competitive global market, Best Interiors is requiring employees to have a certificate in Leadership in Energy and Environmental Design (LEED).
Beutler Corporation	\$74,880	160	Beutler is a HVAC contracting, engineering, and sheet metal fabricating company that provides construction services. Company designed and installs a flash evaporative pre-cooler device that reduces incoming air temperature to the heat exchanger, thereby increasing capacity and efficiency while reducing peak electrical demand.
BLOOM ENERGY CORPORATION	\$681,720	299	Bloom's on-site power generation systems utilize an innovative fuel cell technology with roots in NASA's Mars program. The systems provide efficient energy generators with reduced operating costs and lower greenhouse gas emissions. By generating power where it is consumed, the systems offer increased electrical reliability and improved energy security while providing a path to energy independence.

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Bon Appetit Management Company	\$208,800	170	Company is committed to socially responsible food sourcing and business practices, and strong partnerships with respected conservation organizations. In 2002, sustainable seafood purchasing was implemented, followed by company policies pertaining to rBGH-free milk, antibiotic reduction in meats, and cage-free eggs. They also focus on using ingredients gathered locally and reducing the carbon footprint of all cafes, and feature organic meats and produce.
BRITHINEE ELECTRIC	\$46,200	35	Remanufacturer of motor parts
Brocade Communications systems, Inc.	\$874,800	900	Company will build new facility in San Jose, investing \$249 million utilizing green building technologies, in keeping with its strategy as a manufacturer of energy-efficient products.
CalGren Renewable Fuels, LLC	\$74,100	50	Manufactures ethanol, a renewable fuel.
Cali Bamboo, LLC	\$26,400	20	Sells and distributes bamboo building products - a renewable resource.
California American Water	\$210,540	242	Company participates in clean tech through rigorous business practices to promote a clean and healthy environment in water and wastewater management via environmental projects to protect rivers, creek beds, and by assisting with litter and hazardous waste. Company goals for water conservation include helping customers find ways to create zero water landscaping & conserve water. Training will teach the latest conservation & environment guidelines on how to prevent pollution, promote sustainability, and how to enhance the natural environment.
CALIFORNIA BUILDING PER	\$252,600	225	Green Home Energy Retrofits training.
California Construction Service Corp. dba Sun Light & Power Company	\$74,542	61	Customization & installation of solar systems.
CALIFORNIA LABOR FEDERATION, AFL-CIO	\$1,196,216	1,160	This project will retrain journey-level workers in California's construction trades to transition into the new green economy.
California Retreaders	\$182,540	40	Company retreads used tires with zero emissions.
Carlile Coatsworth Architects, Inc	\$18,252	13	Provides Leadership in Energy and Environmental Design (LEED) services that are critical in the green constructions industry.
CENTURY HOUSING CORP	\$484,700	100	Will be including solar photovoltaic rooftop installation training
Champion Electric, Inc.	\$75,600	56	In 2006 company established plan to become environmentally friendly, through use of wireless technology. Workers must use new technology to streamline construction processes, and use paperless mobile offices. Champion was named to a "Clean & Green" task force by City of Riverside to advise mayor's office on solar energy coinciding with Governor's Green Building Initiative for public buildings, which requires buildings to be 20% more energy efficient by 2015. Majority of company's business is with public buildings.
Chevron Products Company	\$1,777,575	685	Primary product is cleaner-burning motor oil & gasoline. Replacement of equipment will reduce air emissions, increase energy efficiency etc.
Chicana Service Action Center, Inc.	\$113,178	48	Company implemented a Green Workforce Program dedicated to training and educating the community on the benefits and importance of going green, and has begun training and certifying individuals in Photovoltaic (PV) installation to fill various positions within the field of solar cell technology.
Christopher A. Joseph & Associates, Inc.	\$74,880	80	Company is an environmental consulting firm.
CITY OF RICHMOND WORKFORCE INVESTMENT BOARD	\$197,478	53	This contract is under the BUILD Program which is marketing towards the solar industry and is already placing workers with these companies.
CONOCO PHILLIPS COMPANY	\$342,000	500	Implemented a Clean Fuel Expansion project to produce cleaner-burning gasoline and diesels. The process uses a hydro-cracking unit and an additional sulfur plant to covert 20,000 barrels per day of high-sulfur gas oil into ultra-low sulfur gasoline and diesel, using high pressures and a special catalyst to reduce sulfur compounds in fuel, leaving the product relatively sulfur-free.
CONTRACTORS' ALLIANCE OF RICHMOND	\$28,350	30	Construction (Green Building training in Leadership In Energy and Environmental Design).

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Contractor Name	Approved Amount	# to Train	Clean/Green Description
Custom House Hotel LP dba Portola Hotel and Spa at Monterey Bay	\$92,220	116	Portola Hotel and Spa offers a complete range of services including: lodging, meeting sites, conference facilities, and corporate and private social events. Company is in process of obtaining LEED certification that will enable it to market to environmentally conscious corporations throughout the world.
Decore-Ative Specialties, Inc.	\$858,240	596	To become environmental-friendly production facility, company has invested \$3.5 million to create & launch new green technology equipment for cabinets & other products. The technology will give significant reduction in environmental impact of installing cabinets in homes, and allow company to compete with companies that outsource processes out-of-state due to environmental restrictions in California. The new process will reduce waste. Training plan covers Manufacturing Skills on practices and techniques for clean technology and environmental-friendly production.
Del Monte Corporation	\$482,670	655	Company produces natural & organic food chains, and is researching and monitoring products to protect against environmental contaminants. They validate temperature requirements & evaluate new biocides for washing & sanitizing products. Prevention of spoilage during storage & distribution exceeds Cal-OSHA mandated skills.
Delphon Industries, LLC	\$98,262	103	Company recognizes need to be environmentally and socially responsible. They will conduct a train-the-trainer program in green business practices, such as recycling, thereby decreasing waste and improving air quality.
Disco Hi-Tec America, Inc.	\$34,452	33	Internationally accepted ISO specification for Environmental Management that establishes environmental policy for company. They will increase efficiency, use of energy and raw materials, resulting in less waste. Training will establish them as "green company."
Dreyer's Grand Ice Cream	\$548,496	293	Trainees will learn to predict and prevent defects, and improve energy efficiency and reduce emissions of greenhouse gasses and other pollutants.
Dreyer's Grand Ice Cream Holdings Inc.	\$1,135,728	956	Trainees will learn to predict and prevent defects, and improve energy efficiency and reduce emissions of greenhouse gasses and other pollutants.
Dunn Edwards Corporation	\$39,000	130	Mission is to provide the best performing paints that preserve the environment, conserve energy & material resources, and promote health & safety. Company initiates policies to safeguard the health of employees and the public, as well as the quality of the environment. They recycle over 95% of the process waste stream from factories and voluntarily discontinued using latex paint additive ethylene glycol, to be replaced with more costly propylene glycol, a nontoxic substance. In 2000 they formed joint venture with Amazon Environmental to sell recycled late paint. Company constantly researches new ways to be environmentally-friendly, and reformulated their paint from oil-based to water based.
East Bay Spanish Speaking Citizens' Foundation	\$72,644	26	Training is for solar and energy efficient occupations.
EBTA Architects, Inc.	\$30,976	16	EBTA must meet demand by developing new systems to improve architectural design, expand customer service, and decrease production costs. Ability to incorporate more technology into company processes and learn newly emerging "green" building, with Leadership in Energy and Environmental design techniques will help them remain competitive by designing and producing more sustainable design products in the future.
ELECTRONIC INTERFACE INC. DBA APPLIED ENGINEERING	\$160,512	66	Clean room assembly & ISO certification, hybrid cars
ELECTRONIC INTERFACE INC. DBA APPLIED ENGINEERING	\$269,620	85	Hybrid vehicles
ELECTRONIC INTERFACE, INC. DBA APPLIED ENGINEERING, INC.	\$198,900	85	Company is shifting its focus to solar and other nanotechnology related industries. Production staff will be trained in skills related to solar products.

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Elgar Electronics Corporation	\$149,580	270	Digital loop control product introduced January 2007 & more new products will allow customers to modify or exchange software in products, rather than replace major hardware components, reducing waste.
Empire Container Corporation	\$74,360	52	Company produces recycled and green products.
Engineering & Testing services Corporation	\$221,400	246	Some of the company's services include environmental consulting, water supply studies, asbestos surveys and soil testing.
ESLOAR, INC.	\$74,520	60	Manufactures and construction of utility scale solar power plants. The eSolar power plant utilizes small mirrors which track the sun with high precision and reflect the sunlight to a tower-mounted receiver, which boils water to create steam. This steam powers a traditional turbine and generator to produce solar electricity.
F. RODGERS CORPORATIO	\$389,700	433	Takes part in the Leadership in Energy and Environmental Design (LEED), a national standard for green building design.
FIBERTECH POLYMERS, INC.	\$45,000	45	recycling (terminated)
FIREMAN'S FUND INSURANCE COMPANY	\$497,250	1,275	This Company allows the customer to replace standard systems and materials with green ones in the event of a loss. In 2008 Governors Office recognized them as one of five firms to contribute to the green movement.
Flextronics International USA, Inc.	\$205,530	510	Company provides metal fabrication, stamping, and design support for solar powered products. New solar industry customers are now requiring Flextronics to train workers in green manufacturing practices.
Fong Brothers Printing, Inc.	\$74,520	115	Company is becoming certified compliant to environmental standards ISO 14001 for green manufacturing process improvements towards zero emissions, environmentally preferred purchasing of materials, and energy and water conservation methods. They are meeting increasing customer demand for environmentally-certified paper products using raw materials harvested from certified sources, controlled wood sources or post-consumer reclaimed sources.
Fresno Truck Center	\$341,250	130	New diesel engine emission standards will go into effect soon, and service /maintenance on new high tech engines and retro fitting older trucks to "cleaner & greener" machines is going to require increased training.
Fresno West Coalition of Economic Development	\$54,235	35	This training project is designed to build a workforce in the West Fresno for the solar industry.
Frito-Lay	\$1,678,383	3,368	Company uses natural gas in manufacturing process. Provide company training in safety, security, environmental waste & hazard waste.
Frito-Lay	\$1,155,600	1,605	Company uses natural gas in manufacturing process. Will provide training to increase efficiency; reduce waste; minimize fuel emissions; and use technology that reduces water, electricity & gas. One of 2 mfg plants (Modesto) uses solar power to cook SunChips. Company has "green team".
FullBloom Baking Company, Inc.	\$51,120	71	Company uses organic and all natural ingredients, and is committed to implementing environmentally conscious processes. They set goal to achieve certification from Leaders in Energy & Environmental Design, a nonprofit that expands sustainable building practices. Company will become more energy efficient and reduce waste and water in production processes, including packaging.
GENERAL ATOMICS	\$221,400	300	General Atomics uses a gas turbine modular helium reactor in a power plant with quantum improvement in thermal efficiency, about 50%. This efficiency makes possible much lower power costs, without environment degradation & resource depletion of burning fossil fuels. Company harnesses nuclear power & provides systems for hazardous materials destruction, including supercritical water oxidation. Urban Maglev program will develop a magnetic levitation technology for a cost effective & environmentally friendly option for urban mass transportation. Also, company just received a grant for research into development of biofuels using microalgae. 1 acre of algae provides 150 times the oil that 1 acre of soybeans does. Researchers estimate 10 million acres of algae will supply all the transportation fuel needs for the US.

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General Mills Operations, LLC	\$180,000	160	Company manufactures yogurt products. Its largest green initiative is recycling yogurt waste, cardboard, plastic, and aluminum foil. Company installed T-8 fluorescent bulbs, is redesigning its condensate system to reduce consumption of natural gas, and is working with suppliers to reduce amount of plastic in its containers.
Genesis Engineering Services, Inc.	\$64,480	40	A significant portion of the business activity involves collecting used electronic equipment, moving it and recycling what can be reused.
GILSTRAP'S CLEANING AND RESTORATION SERVICES, INC.	\$29,920	17	This company provides mold, asbestos, and additional indoor environmental remediation services.
Give something Back Business Products	\$235,040	80	Green certified business provides green printing and paper products, reusable modular systems and ergonomically correct products.
GIVE SOMETHING BACK BUSINESS PRODUCTS	\$187,200	80	GSB is an Alameda County "Green Certified Business". Its 19,800 square foot Oakland facility is equipped with rooftop solar energy production units. GSB is known as a "B Corporations". "B Corporation" companies must meet strict comprehensive, transparent social and environmental standards, and amend their governing documents to reflect socially responsible values.
GNB Corporation	\$58,240	64	Manufactures vacuum components for science and industry - valves, baffles and chambers primarily for aerospace and solar industries.
Gold Crown Electronics, Inc.	\$20,280	13	Company specializes in electronics repair and refurbishing. They focus on quality and use of sustainable material, enforcing a rigorous e-waste procedure to achieve Tier 1 Supplier certification. ETP training will help them pursue higher level environmental certifications.
Hill Partnership, Inc.	\$20,196	27	Firm focuses on environmental design and green building.
Hitachi Data Systems Corporation	\$200,700	300	Company designs and distributes high-end storage devices and software. Offers Conserve IT services to reduce data center energy consumption, and a "spin-down" process that reduces data storage space and energy consumption. Has won several Green Awards.
Innovative Nitrogen Systems, LLC	\$31,200	20	Produces nitrogen generators (pure) that, consume little energy.
International Business Machines Corporation	\$235,125	275	Company provides information technology hardware, software, service products, and e-business solutions. Proposed curriculum includes Green Storage, IBM Solutions for Green IT, Lean and Green: System z, SCM Green Sustainable Offering and Tools, and IBM System p and Project Big Green - Competitive Update.
INTERNATIONAL PAPER COMPANY	\$360,000	160	Company is engaged in partnerships with the U.S. Environmental Protection Agency and has a long-standing policy of using no wood from endangered forests and supports mutual recognition of forest certification standards.
INTERNATIONAL RECTIFIER CORPORATION	\$74,736	173	This company manufactures and designs power management semiconductors. The company's power management technology aims to make electricity a better "fuel". This will enable manufacturers of electrical and electronic devices to create products with compact features and prolonged battery life at a lower cost.
Irwin Industries, Inc.	\$742,446	489	Demand for cleaner burning petroleum products is creating demand for Irwin's services at their refineries. New regulations require construction of new processing units & ongoing maintenance, creating more opportunities for Irwin. Recent contract to install cogeneration plants for Southern California Edison.
Jacob Moss, Inc. dba Moss Electrical Contracting	\$28,080	12	Company provides photovoltaic solar systems and energy conservation upgrades. Training will expand employees' knowledge in solar electrical grounding and bonding, solar power, and other topics.
Jazz Semiconductor, Inc.	\$345,600	240	Manufactures semiconductor devices used to create chips, the integrated circuits that are present in everyday electronic devices. To reduce its carbon footprint, it has improved the performance and energy efficiency of air, water, and production equipment systems, overhauling its fabrication facility operations to reduce the consumption of water, compressed air, and electricity throughout the plant.
Jeld-Wen, Inc.	\$321,930	365	Company is focusing training efforts on increasing efficiencies and expanding green-manufacturing processes, as well as quality and customer service. Workers will be trained in green manufacturing improvements and other skills.
JSR MICRO, INC.	\$159,120	136	Company is implementing solar and hybrid energy applications.

Clean/Green Technology Contracts

Approved July 1, 2006 to Present

Contractor Name	Approved Amount	# to Train	Clean/Green Description
K-1 Packaging Group	\$96,408	36	Company manufactures packaging materials for various consumer products, and is working to reduce its carbon footprint. Its in-house recycling program reduces amount of waste that is sent to the landfill, and all of its electrical energy comes from wind power.
KS Industries LP	\$504,000	350	KSI is involved with all the producers (Chevron, Shell, Aera Energy, Berry Petroleum) in clean technology. Company works on many projects involving water treatment and reclamation. KSI does most of the maintenance at Chevron's station 36 water plant, which provides 60,000 barrels of reclaimed production water per day for agricultural use.
Label Impressions, Inc.	\$35,828	26	Small label printer uses only paper materials that come from sustainable forests, that are managed responsibly.
LAWRENCE LIVERMORE NATIONAL LABORATORY OPERATED BY LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	\$69,300	70	For the past 10 years this company has been in the research and development process for the High Pressure Hydrogen Car and is now ready to transfer to commercial production.
Leadership Training & Education Fund	\$436,748	454	Curriculum meets client needs for trained janitors that can respond to the need of property owners and managers to decrease energy costs, and to help create and promote safer, more secure, greener, and healthier environments. They will keep buildings free from pollutants and respond to new green cleaning initiatives.
Limoneira Company	\$136,368	100	Limoneira is an agribusiness that is also involved in community development and land stewardship. Five acres of its land is used to convert green waste to mulch that is spread in its orchards to improve the soil. It has a power generating system to reduce the company's electricity cost by one-third, and has added solar panels to help power water pumps.
Lockheed Martin Aeronautics company	\$176,676	293	Company's core capabilities are in the design, development, systems integration, production, and sustainment of advanced military aircraft and related technologies. It seeks new ways to reduce energy usage and lower greenhouse gas emissions, and is a member of the EPA's Green Power Partnership and is one of the top green power purchasers in the country.
Lortz & Son Manufacturing Company, Inc.	\$401,004	141	Company fabricates towers for wind generation and recently completed support structures in solar fields. They are taking action to reduce carbon footprint and integrate green business practices into operations via several new software packages to support paperless operating system.
LPA, Inc.	\$252,525	259	The architecture profession is rapidly changing to include more green developments and sustainable buildings. LPA needs to retrain architects and designers as certified Leadership in Energy and Environmental Design standards. They are introducing new system called the Building Information Model that allows comprehensive method to meet new green standards efficiently.
MCCARTHY BUILDING COMPANIES INC	\$108,675	172	Training is specifically designed and necessary for workers to become Leadership in Energy and Environmental Design (LEED) certified.
MEAN MACHINE INC.	\$30,420	13	Company is a manufacturer of environmental parts that are used in subsurface testing, groundwater remediation, and environmental cleanup.
Medway Plastics Corporation	\$74,100	38	Company promotes clean tech by using recycled plastic and using a Cogen power plant which runs on natural gas. Their R&D department researches plastic bottles and other plastic materials, including recycling processes.
MemoryTen, Inc.	\$132,288	48	Company designs and provides customized memory chips and components using sustainable recycling. They disassemble and recycle used computer components, housings, chips, hard drives and other items. In an effort to become "Green Certified" company has begun to refurbish iPod units and is giving training in green technology.
Merryvale Vineyards, LLC	\$19,500	30	Sustainable grape farming
Micro Dental laboratories	\$92,610	147	Company promotes green business practices such as company-wide recycling of paper and metal products, energy saving lighting and equipment, and digital imaging instead of conventional x-ray.

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Contractor Name	Approved Amount	# to Train	Clean/Green Description
Miller Breweries West LLP	\$1,277,100	330	Company uses steam & compressed air in manufacturing process.
Monighan & Associates, Inc., dba Monighan Design	\$8,112	13	Architectural designers for clean technology.
Musco Olive Products dba Musco Family Olive company	\$58,176	101	Musco Olives produces foodservice items and ripe olives for the retail market. Customers are demanding both environmental sustainability and food safety/security. Forklifts are being replaced with units that satisfy improved emission standards. Hazardous materials training includes instruction in waste management, spill prevention, and the satisfaction of environmental standard for the protection of air, land and water.
National Semiconductor corporation	\$1,998,000	1,500	Committed to environment, health & safety excellence and meeting or exceeding regulatory requirements for hazardous substances. Programs have been implemented to reduce hazardous substances, chemicals and/or emissions. All factories are ISO 14001 & OHSAS
NATIONAL SEMIICONDUCTOR CORPORATION	\$780,000	1,500	National's power efficient circuits are posed to meet the future energy needs to products across an array of industries including medical, security, video distribution/ transmission, and personal mobile devices. National also has entered into the photovoltaic market with new technology designed to increase the effectiveness of solar panels under variable light conditions.
Natural Selection Foods LLC dba Earthbound Farm	\$173,160	130	Founded as a farm & organic raspberry stand, company has grown to manufacture and sell organic produce on 40,000 acres. They promote sustainable agriculture, protecting the ecosystem health; run vehicles on biodiesel; use recycled cardboard for salad cartons; avoid using chemicals; conserve petroleum; save trees, landfill space, kilowatts of energy and water. In 2003 owners received Global USA's Corporate Environmental Leadership award.
NBC UNIVERSAL INC	\$243,000	250	Carbon-neutral production efforts involve reducing emissions, purchasing carbon emission offsets, and using hybrid or electric production vehicles whenever possible. Also recycles non-toxic cleaning products and low emission paints, sealants, and lacquers.
Network Hardware Resale, Inc.	\$48,600	108	Provides technical support and sales of pre-owned & refurbished networking equipment.
NEW UNITED MOTOR MANUFACTURING, INC.	\$6,010,200	2,835	New technologies ensure cars are environmentally safe, impacting materials such as sealants, plastics, & paints. NUMMI collects & recycles pallets & wood scraps, and Filtercake recycled for use in cement. Waste Reduction Awards Program Winner every year since 1993 by Integrated Waste Mgmt Board. Also conserves energy & promotes alternative transportation through Spare the Air program, and partners with conservation groups on environmental projects.
Opportunities Industrialization Center West dba JobTrain	\$119,360	40	Curriculum developers will work with employers from solar industry to create placement opportunities for solar graduates as Installers.
Orange County Container Corporation	\$449,820	210	Company was certified in June 2008 by Forest Stewardship Council as responsible manager of forests. They produce paper and pulp products.
Organic Mattresses, Inc.	\$21,060	27	Company is leading manufacturer of organic mattresses & bedding, and is full-circle environmental company committed to offering retailers the purest organic products. They use certified, organic raw materials, and cotton batting is premium grade virgin cotton sanitized with non-chemical ozone process. Premium Eco-Wool is humanely shorn from hormone free, homeopathically raised sheep grazing in pesticide-free meadows. Natural rubber latex cores supplied by only US source for pure 100% natural Talalay-processed rubber, derived from milk of the rubber tree.
Orion ICS, LLC dba Gemini Energy Services	\$74,100	19	This company is a full service operations and maintenance provider to the wind industry.
OWENS CORNING SALES L	\$194,400	200	Owens is best known for its PNK Fiberglass insulation. It's a product made from sand and recycled glass. The products Owens Corning sells each year are also responsible for the prevention of more than 1 billion tons of greenhouse gas emissions.
OWENS DESIGN INCORPORATED	\$150,072	74	Company designs, engineers, manufactures, assembles, and tests the capital equipment used by companies in the solar industry.

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Contractor Name	Approved Amount	# to Train	Clean/Green Description
Pacific Ethanol, Inc.	\$216,000	150	Company manufactures and distributes low-carbon ethanol, and is reducing transportation cost by selling locally, with fewer harmful atmospheric emissions.
Pebble Beach Company	\$74,760	89	Company operates resort hotels and golf links, provides meeting and event facilities, luxury accommodations, activities and resort amenities. It is a certified green business through the Monterey Bay Area Green Business Program, exceeding program standards for conserving resources, preventing pollution, and minimizing waste.
Penske Truck Leasing Company	\$490,050	726	Company has been proactive in "going green", by supporting research and engine usage that is environmentally-friendly. They train employees when moving from diesel fuel to compressed natural gas. All company operations exceed environment standards in recycling of waste, water, and oil. They invested in 3 new buildings that are energy efficient and is updating existing buildings to be more green.
Perrin Bernard Supowitz, Inc. dba The Individual Group	\$199,335	97	Company is a paper, food, and janitorial supplies distributor to restaurants, wholesalers, food processors, caterers, and bakeries. It is adding eco-friendly products (degradable, biodegradable, and/or compostable) to its product supply inventory, and wants its employees trained and knowledgeable about these green products.
Peterson Brothers Construction, Inc.	\$129,600	180	Training will eliminate waste in installation processes and green production processes will be introduced for first time.
PHARMAVITE LLC	\$514,368	752	Green Business Operations with a recycling program for waste that is a result of production at the plants and the company has implemented a lighting project that will reduce electrical usage while increasing lighting in the factories.
PHCC Education Foundation/Green Plumbers USA	\$197,117	347	Foundation was created through agreement with Green Plumbers of Australia to bring successful water and energy conservation program to America. Program is designed to protect natural resources through plumbing efficiencies improved technologies to reduce water demand, curtail greenhouse gas emissions, and limit global warming. Distinct methods of repair and installation are required, and training will teach installers new techniques for working with green plumbing materials. Participating employers will be able to control costs by reducing on the job scrap and improve efficiency.
Phenomenex, Inc	\$298,800	200	Supplies key products for environmental science & other sciences. Company provides solutions for cleaner, more efficient fuels, using columns & new technologies for renewable fuel sources. They have been part of all the major research into green fuels, testing biodiesel and bioethanol. Phenomenex published a biofuels analysis guide May 2, 2008.
Pilkington North America, Inc.	\$131,760	75	Company investing in capacity to produce specialty glass for photovoltaic market or solar panel industry. By expanding its manufacturing capacity of transparent conducting oxide coating, they hope to minimize the total carbon footprint of solar panel manufacturing process. They will use new technology to dramatically reduce the carbon footprint of end use products in homes and buildings.
Praxair Distribution, Inc.	\$643,968	516	Company processes specialty gases (produced when air is purified, compressed, & condensed), high-performance coatings, and acetylene (produced as by-products of chemical production or recovered from natural gas). Praxair's direct emissions of air, water & solid waste are low due to manufacturing process using a renewable resource-air-as an input and cryogenic & physical technologies to transform into its component parts. Company captures & refines gas by-products with minimal environmental effect. About 2/3 of annual revenue is derived from applications which help their customers: reduce environmental footprints, improve energy efficiency, and increase yield of production-thus decreasing use of raw materials.
PRECISION SWISS PRODU	\$74,880	40	Expanding into solar and nanotechnology and integrating green business solutions into its operations.
PS PRINT, LLC	\$99,144	102	Green Business Operations- recycles four tons of paper per day; printing multiple projects on large sheets of paper; changing from conventional inks with soy based; upgrading saber cutter to minimize waste, installing efficient lighting; upgrading to low energy use compressors.

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Contractor Name	Approved Amount	# to Train	Clean/Green Description
PURE ENERGY SYSTEMS, INC.	\$18,720	12	Company designs, sells, services and installs solar electric, water, pool, and wind energy systems for residential, commercial, and industrial applications.
Quad Knopf, Inc.	\$481,500	214	Provides biological studies and environmental consulting.
Raytheon Corporation	\$1,804,000	4,000	Company uses fan systems to manufacture electronics. Provided training in cleanroom and hazmat procedures. Company uses processes that reduce waste. Company has initiated a Carbon Footprint program to reduce emission of gasses.
Recycling Industries, Inc.	\$15,600	10	Company provides recycling service to businesses and people in northern California. They recycle paper, plastic, glass and aluminum.
REGIONAL TECHNICAL TRAINING CENTER	\$460,080	120	The purpose of this program is to prepare new-hire trainees to obtain entry level green collar jobs in the bay area such as: photovoltaic installer, solar thermal installer, sales rep, energy auditors, water, air, soil technicians, and hazmat techs.
REHRIG PACIFIC COMPANY	\$494,856	237	Uses 100% recyclable materials throughout its product line and they use non-heavy metal colors.
Renesas Technology America Inc	\$159,840	120	Has a GTI initiative to promote saving energy, reducing waste, and using green cleaning solution throughout the company.
RICOH AMERICAS CORP	\$495,510	772	Named one of the Global 100's most sustainable Corporations in the world by the World Economic Forum the past three years. RAC is committed to lowering the carbon foot print of its customers and providing ways to which it products and services can help companies reduce, reuse, and recycle resources. They offer 100% energy star compliant products; end-of-life management and custom solutions.
Sacramento Area Electrical Workers Joint Apprenticeship and Training Trust	\$74,669	86	Organization dedicated to providing industry skills training and to securing high-quality job opportunities for its members. Journey level electricians are currently faced with understanding new national building codes and green practices, and implementing green solutions in work environments. Green training topics such as Solar Panel Installation and Advanced Lingting Controls have been added to update member skills.
Safety-Kleen System, Inc.	\$870,102	369	Provides industrial waste management, oil recycling, & parts cleaning.
San Francisco Electrical Joint Apprenticeship and Training Committee	\$184,450	200	Provides electrical industry skills training to its members, as well as expanded retraining in commercial, business and computer skills, including green training topics such as solar panel installation and advanced lighting controls (an important new green training for electricians working in large buildings).
Severn Trent Services	\$156,870	105	Company is the world's leading supplier of water and waste water treatment solutions, and they design and manufacture water disinfection products to protect water resources. Training will help to reduce waste and improve efficiency.
SHAW DIVERSIFIED SERVICES INC	\$138,050	251	Practices "Zero Waste" -- Shaw diverts approximately 11,430,000 pounds of recyclables from disposal to landfill per year, resulting in an estimated \$1,850,860 in savings through waste reduction, reuse, and reduced landfill costs.
SHEET METAL & AIR CONDITIONING APPRENTICESHIP & JOURNEYMAN JOINT TRAINING FUND	\$285,240	180	Training includes green business practices necessary to meet commercial interest and demand to develop, retrofit, and maintain greener buildings.
Silicon Valley Workforce Investment Network (SVWIN)	\$379,225	197	Major core employer is Nanosolar, Inc. They use new solar cell that generates energy & uses nanotechnology - it's cost efficient & uses green power. 197 Nanosolar trainees @ \$1925 cost.
SoloPower, Inc.	\$394,134	93	Small company is in research and development phases for the manufacturer of thin-film photovoltaic solar cells and modules that convert the light from the sun into energy.
SONY PICTURES ENTERTAINMENT	\$253,800	300	Company is changing to a digital process of marketing materials for theatrical release. This change will replace the old method of using posters and press kits.
Southern California Floor Covering Crafts Joint Apprenticeship & Training Committee	\$123,200	200	The industry is shifting to green building materials that require distinct methods of installation.

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Contractor Name	Approved Amount	# to Train	Clean/Green Description
SOUTHERN CALIFORNIA PAINTING & DRYWALL INDUSTRIES APPRENTICESHIP TRUST	\$124,978	125	Providing training on how to eliminate the use of potentially polluting painting and coating materials, which will increase journeymen's awareness of green issues to improve applications skills.
Southern California Roofers & Waterproofers Joint Apprenticeship & Training Committee	\$201,500	250	Organization provides training for apprentices and journeymen in the roofing and waterproofing construction industry. There is a shortage of roofers and waterproofers trained in energy efficient green building technologies and procedures. In response to the federal economic stimulus plan to create green jobs, the organization needs to provide workers with skills on energy efficient dwellings.
STRUCTURAL COMPOSITES INDUSTRIES L.L.C.	\$281,160	142	Designs and manufactures lightweight, aluminum-lined composite-wrapped, high pressure cylinders for alternative fuel vehicles.
STURGEON AND SON, INC.	\$538,560	374	Clean Construction processes; uses recycled materials.
Suffolk Construction Company, Inc.	\$74,592	74	To reduce energy consumption & comply w/new advances in "Green" building technologies, most trainees will receive training in Leadership in Energy & Environmental Design for Green Building standards.
SUN MICROSYSTEMS, INC	\$1,496,664	2,028	Sun is committed to designing & delivering eco-friendly processors, systems, programs & services that help businesses reduce power consumption, environmental impact & energy costs.
SUTI Holdings, LP	\$99,000	100	One employer, Senz-It Inc. produces applications for the emerging environmental air quality and food safety sectors. (6 trainees approved for \$5940 at this company.)
Tait & Associates, Inc.	\$283,500	210	Environmental Consulting Services
Tait & Associates, Inc.	\$75,500	125	Company is a construction and architectural engineering firm that provides civil engineering, construction, surveying, architectural, and environmental services. Clients demand that the company provide green technology architectural and engineering services. In last three years, company has cross-trained staff for positions in its Environmental Compliance Consulting business.
TAMCO Steel	\$323,910	295	TAMCO is only small steel mill in California and recycles scrap metal & mills it into reinforcing bar for construction industry. They use processed heat & compressed air.
TBP/ARCHITECTURE, INC.	\$74,844	63	New green requirements for sustainable design are quickly becoming the "construction" industry standards.
Techmer PM, LLC	\$95,040	44	Techmer designs and manufactures high performance polymer additives and plastic colorants. Company received the Los Angeles County "2008 Smart Business Recycling Award" for significantly reduced waste disposal. Company also exercises strict controls over emission of plastic pellets during production, and recycles all of its plastic cardboard, metal, and office-paper waste.
Technical Consumer Products Inc.	\$115,200	40	Manufactures and distributes energy efficient fixtures.
THE NEIL JONES FOODS COMPANY DBA TOMA TEK, INC.	\$944,136	423	Company has modernized their plant to produce higher yields, and spent \$3 million on advanced technology, that improves product yield and reduces energy consumption. Training is required to utilize new equipment.
Toppan Photomasks, Inc.	\$182,196	241	Produce photomasks, used as components in solar technology and other products.
Toshiba America Electronic Components, Inc.	\$99,360	138	Company is committed to the reduction of waste, hazardous substances, and the impact of its operations on the environment. They are a Sony Green Partner who received many awards, and have been certified in ISO14001 for green business practices. They have started many Voluntary Plans to lessen global warming, and are trying to achieve a 25% reduction in carbon emissions and 10% reduction in PFCs by 2010.
Turner Construction Company	\$249,282	339	Turner provides construction and project management services to a cross-section of industries. Company states is the largest builder of green buildings in the nation. Training classes are designed for workers to become LEED accredited. Committed to reducing its greenhouse gas emissions, production waste, and electricity consumption.

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Contractor Name	Approved Amount	# to Train	Clean/Green Description
TYCO ELECTRONICS CORPORATION	\$294,066	527	Manufacturing lead-free products that meet hazardous material elimination requirements and the company manufacturing plants and facilities have implemented energy conservation measures that have resulted in an annual saving of 26 million kilowatt hours.
U.S. FARM SYSTEMS, INC.	\$211,200	64	leader in dairy waste handling, allows dairies to comply with environmental regulations & protect communities.
U.S. Foodservice, Inc,	\$110,880	80	Company is a distribution operation that supplies national, private-label and signature brand items to restaurants, schools, universities, government facilities, hotels, healthcare institutions and sport stadiums. In September 2007, it was certified by the Bay Area Green Business Program to be the first food service company in the nation to achieve Green Business Certification.
UltraSystems Environmental Inc.	\$30,360	23	Provides environmental planning and consulting services. Currently working w/ports of LA & Long Beach to implement Clean Air Action Plan; and LA County on Alternative Technologies for Solid Waste Projects. Involved with AB32 - Greenhouse Gas Emissions work through goods movement projects, including METRO.
United Parcel Service, Inc.	\$1,334,965	1,221	A new system called Package Flow Technology has been enhanced to include Telemetric, which analyzes data in delivery trucks to slash energy consumption, improve efficiency, and increase customer satisfaction. In California, this will help UPS maintain momentum towards going green.
US Farm Systems, Inc.	\$161,200	62	leader in dairy waste handling, allows dairies to comply with environmental regulations & protect communities
US FoodService, Inc.	\$198,450	147	Company is expanding their organic food lines, and their "green initiative" by eliminating non-biodegradable packaging.
US Hybrid	\$15,600	10	Develops, designs and produces drive systems and related components for electric, hybrid-electric, and fuel cell powered vehicles.
VAN DORPE CHOU ASSOCIATES, INC.	\$57,720	37	Company is implementing Leadership in Energy & Environmental Design program to promote integrated, green, whole-building design practices.
VEKTREX ELECTRONIC SYSTEMS, INC.	\$12,480	8	This small business develops, manufactures, and markets advanced power electronic solutions that support green technology LEDs and laser diodes.
Veritable Vegetable	\$164,736	88	Certified organic handler distributes organic produce.
VISIONS RECYCLING, INC.	\$15,840	12	Recycle hazardous waste materials
VVP America Inc., Vitro America	\$815,652	278	Produces more efficient glass products such as "Low E" and other green products for better insulation, and to reduce heating and cooling costs.
WELLPOINT, INC.dba BLUE CROSS OF CALIFORNIA	\$405,000	750	Green Business Operations --Has partnered with Dell to redefine the way businesses approach environmental leadership with the "Plant a Forest for Me" initiative, a program that enables organizations worldwide to facilitate the planting of millions of trees in sustainably managed reforestation projects to offset a portion of their overall carbon footprint.
WOONGJIN COWAY USA IN	\$43,500	29	Provides intergraded distribution and sales of air purifiers, water filtration devices, digital bidets, megasonic cleaning device, and other well-being home appliances.
Xerox Corporation	\$332,750	250	Company is focused on green technology innovation and developed reusable paper. They invented paper that can be printed on, then reused the next day when paper turns blank, resulting in reduced waste and less environmental impact.
Yes! Solar Solutions, Inc.	\$70,200	30	Company designs and tests solar systems.
175 Contracts	\$58,427,834	53,826	

FEDERAL AND STATE ARRA GRANTS WITH SPECIFIC FOCUSED ON GREEN TRAINING PROGRAMS

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
NORTHERN CALIFORNIA								
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Humboldt County	Humboldt	The Retraining Partnerships (1A and 1B) shall include classroom and hands-on training that provides green building principles, building science fundamentals and State Energy Code licensure laws for either the residential or commercial construction sector.	\$ 889,725	Un/underemployed workers with focus on workers with construction experience	100	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Humboldt County	Humboldt	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field.	\$ 722,540	New Workforce Entrants, Un/underemployed Workers	100	
Regional Industry Clusters of Opportunity Grant (RICOG)	Developing Regional Capacity	Humboldt County	Del Norte, Humboldt, Mendocino, Siskiyou, Trinity	DIVERSIFIED HEALTHCARE, BUILDING & SYSTEMS CONSTRUCTION & MAINTENANCE, SPECIALTY AG, FOOD & BEVERAGES, INVESTMENT SUPPORT SVS, MANAGEMENT & INNOVATION SVS, NICHE MANUFACTURING	\$ 200,000			
					\$	1,812,265		
NORTHERN SACRAMENTO VALLEY								
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Northern Rural Training and Employment Consortium	Butte	The Retraining Partnerships (1A and 1B) shall include classroom and hands-on training that provides green building principles, building science fundamentals and State Energy Code licensure laws for either the residential or commercial construction sector.	\$ 1,000,000	Un/underemployed workers with focus on workers with construction experience	117	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Northern Rural Training and Employment Consortium	Butte	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 1,000,000	New Workforce Entrants, Un/underemployed Workers	117	
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	Shasta-Tehama-Trinity Joint CC District (Shasta College)	Shasta	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 650,606	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	Northern Rural Training and Employment Consortium	Butte	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 919,132	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		
Recovery Act Tax Credits for New Clean-Tech Manufacturing Jobs	Solar Hot Water	FAFCO, Inc.	Butte	FAFCO will develop a next generation low cost, polymer based solar hot water heating system for homes. The complete system in a box will be low cost and easy to install.	\$ 214,500			
DOL Pathways of Poverty Grants	Renewable Energy, Efficiency Assessment, Green Building Construction and Retrofitting, Weatherization, Manufacturing, and Waste Collection and Remediation	Northern Rural Training and Employment Consortium (NoRTEC)	Butte, Del Norte, Lassen, Modoc, Siskiyou, Shasta, Tehama, and Trinity	The grantee will train and place participants for employment in energy renewal and efficiency industry clusters.	\$ 4,000,000	High school dropouts, at-risk youth, welfare recipients, individuals with a criminal record, unemployed and dislocated workers		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
Employment Training Panel (Clean Energy Workforce Training Program)*	Green/Clean Technology	Shasta-Tehama-Trinity Joint CC District (Shasta College)	Shasta, Tehama, Trinity	This program will upgrade skills for incumbent workers, and provide a trained workforce, so as to encourage retention and expansion in California for the emerging green/clean industry sector.	\$ 137,410	New-hire and incumbent workers		
Regional Industry Clusters of Opportunigty Grant (RICOG)	Developing Regional Capacity	Northern Rural Training and Employment Consortium (NoRTEC)	Butte, Del Oro, Lassen, Modoc, Nevada, Plumas, Shasta, Sierra, Siskiyou, Tehama, Trinity	RENEWABLE/ENERGY EFFICIENCY, ALLIED HEALTH, FUEL TECHNOLOGY, AGI-BUSINESS TECH, SMALL INNOVATIVE INDUSTRIES I.T.	\$ 249,000			
					\$	8,170,648		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
GREATER SACRAMENTO								
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Sacramento Employment Training Agency	Sacramento	The Retraining Partnerships (1A and 1B) shall include classroom and hands-on training that provides green building principles, building science fundamentals and State Energy Code licensure laws for either the residential or commercial construction sector.	\$ 997,810	Un/underemployed workers with focus on workers with construction experience	200	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Sacramento Employment Training Agency	Sacramento	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 968,682	New Workforce Entrants, Un/underemployed Workers	230	
California Clean Energy Workforce Training Program	Alternative and Renewable Fuel	Sacramento Employment Training Agency	Sacramento	The category (3) will coordinate workforce development and training services delivery related to alternative and renewable fuel and vehicle technology.	\$ 500,000	Un/underemployed workers, incumbent workers with focus on transportation fuel, vehicle and component manufacturing related workers	146	
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	Sacramento Employment and Training Agency	Sacramento	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 937,890	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		
Construction Talent Transfer Program	Construction	North Central Counties Consortium	Sutter	The program will provide focused job training in areas including commercial concrete, welding, electrical, drywall and other construction trades to assist nearly 600 displaced residential construction workers.	\$ 450,000	Unemployed, Displaced Construction Workers		Programs are potentially 'green' but cannot be identified
Construction Talent Transfer Program	Construction	Northern California Teamster Apprentice Training	Sacramento	The program will provide focused job training in areas including commercial concrete, welding, electrical, drywall and other construction trades to assist nearly 600 displaced residential construction workers.	\$ 450,000	Unemployed, Displaced Construction Workers		Programs are potentially 'green' but cannot be identified
Construction Talent Transfer Program	Construction	Sacramento Employment Training Agency	Sacramento	The program will provide focused job training in areas including commercial concrete, welding, electrical, drywall and other construction trades to assist nearly 600 displaced residential construction workers.	\$ 450,000	Unemployed, Displaced Construction Workers		Programs are potentially 'green' but cannot be identified
DOL Green Jobs Capacity Building	Home-Energy	Sacramento Regional Conservation and Service Corps	Sacramento	Participants will receive credentials related to the home energy rating system training.	\$ 92,820	YouthBuild Participants		
Regional Industry Clusters of Opportunity Grant (RICOG)	Developing Regional Capacity	Sacramento Employment Training Agency	El Dorado, Sacramento, Sutter, Yolo, Yuba	CLEAN ENERGY TECHNOLOGY	\$ 200,000			
					\$	5,047,202		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
BAY AREA								
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Contra Costa Community College District	Contra Costa	The Retraining Partnerships (1A and 1B) shall include classroom and hands-on training that provides green building principles, building science fundamentals and State Energy Code licensure laws for either the residential or commercial construction sector.	\$ 1,000,000	Un/underemployed workers with focus on workers with construction experience	180	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Sonoma County	Sonoma	The Retraining Partnerships (1A and 1B) shall include classroom and hands-on training that provides green building principles, building science fundamentals and State Energy Code licensure laws for either the residential or commercial construction sector.	\$ 1,000,000	Un/underemployed workers with focus on workers with construction experience	300	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Peralta Community College District	Alameda	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 1,000,000	New Workforce Entrants, Un/underemployed Workers	120	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Richmond City	Contra Costa	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 1,000,000	New Workforce Entrants, Un/underemployed Workers	190	
California Clean Energy Workforce Training Program	Alternative and Renewable Fuel	Richmond City	Contra Costa	The category (3) will coordinate workforce development and training services delivery related to alternative and renewable fuel and vehicle technology.	\$ 500,000	Un/underemployed workers, incumbent workers with focus on transportation fuel, vehicle and component manufacturing related workers	125	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	San Francisco Department of Economic & Workforce Development	San Francisco	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 998,550	New Workforce Entrants, Un/underemployed Workers	150	
California Clean Energy Workforce Training Program	Alternative and Renewable Fuel	San Francisco Department of Economic & Workforce Development	San Francisco	The category (3) will coordinate workforce development and training services delivery related to alternative and renewable fuel and vehicle technology.	\$ 277,500	Un/underemployed workers, incumbent workers with focus on transportation fuel, vehicle and component manufacturing related workers	144	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Solano Community College	Solano	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 418,751	New Workforce Entrants, Un/underemployed Workers	240	
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	City of College San Francisco	San Francisco	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 931,087	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	Peralta Community College District	Alameda	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 937,511	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	San Mateo County	San Mateo	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 936,429	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	Workforce Institute, San Jose/Evergreen CCD	Santa Clara	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 937,873	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		
Construction Talent Transfer Program	Construction	Richmond City	Contra Costa	The program will provide focused job training in areas including commercial concrete, welding, electrical, drywall and other construction trades to assist nearly 600 displaced residential construction workers.	\$ 450,000	Unemployed, Displaced Construction Workers		Programs are potentially 'green' but cannot be identified
DOL Green Jobs Capacity Building	Waste-to Energy	California Indian Manpower Consortium Inc.	Sonoma and Mendocino	CIMC will develop develop curriculum for three-tier training program to facilitate the development of jobs in local waste-to energy facilities.	\$ 100,000	Indian Tribes		
DOL Green Jobs Capacity Building	Solar and Energy	Community Action Partnership of Sonoma County	Sonoma	Program will provide a vocational training center for entry-level solar installer and energy efficiency auditor training.	\$ 100,000	YouthBuild graduates and entry-level workers		
Recovery Act Tax Credits for New Clean-Tech Manufacturing Jobs	Solar CSI	Cali Solar, Inc.	Santa Clara	CaliSolar will build a new manufacturing facility to process silicon feedstock into finished solar cells.	\$51,563,980			
Recovery Act Tax Credits for New Clean-Tech Manufacturing Jobs	Solar PV	Miasole	Santa Clara	Miasole will manufacture Solar PV Cells and modules based on an innovative thin-film production technology. These Solar PV Cells will drive lower the costs of renewable clean electricity generation.	\$10,450,200			
Recovery Act Tax Credits for New Clean-Tech Manufacturing Jobs	Solar PV	Miasole	Santa Clara	Miasole will manufacture Solar PV Cells and modules based on an innovative thin-film production technology. These Solar PV Cells will drive lower the costs of renewable clean electricity generation.	\$91,350,000			
Recovery Act Tax Credits for New Clean-Tech Manufacturing Jobs	Solar PV	Nanosolar	Santa Clara	Nanosolar will factory produce tools for the manufacturing of low-cost, low-GHG emission solar cells, using nanotechnology-enabled roll-to-roll processes. Tools enable high throughput production steps including printing of electronic ink, annealing, various deposition steps, cell assembly, and quality control and testing of structural and functional properties of product.	\$43,453,309			
Recovery Act Tax Credits for New Clean-Tech Manufacturing Jobs	Solar PV	Stion Corporation	Santa Clara	Stion Corporation will manufacture high efficiency (11-12%+) CIGS thin-film photovoltaic modules on glass. The resulting technology will aid the domestic solar energy industry.	\$37,500,000			
DOL Pathways of Poverty Grants	Energy Efficiency and Clean Energy	National Council of La Raza	Santa Clara & San Diego	The grantee will work with its partners to bring economic gains to Latinos with barriers to employment by operating green pathways programs in heavily blighted urban locations.	\$ 1,982,259	Low-income and unemployed individuals, and individuals with limited English proficiency		
Industries with Statewide Need	Transportation, Warehousing and Other Services Sector	Peralta Community College District	Alameda	The Alameda Transportation and Logistics Academic Support Initiative (ATLAS) is a regional consortium of community colleges, Workforce Investment Boards, community workforce providers, labor, and regional industry employers that will implement career path trainings in transportation, warehousing, and logistics for underserved unemployed and underemployed populations in the greater East Bay Interstate 80/580 corridor from Oakland to Richmond.	\$ 1,000,000	Unemployed or underemployed individuals	225	

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
Employment Training Panel (Clean Energy Workforce Training Program)*	Green/Clean Technology	Solyndra, Inc.	Alameda	This program will upgrade skills for incumbent workers, and provide a trained workforce, so as to encourage retention and expansion in California for the emerging green/clean industry sector.	\$ 350,550	New-hire and incumbent workers		
Regional Industry Clusters of Opportunigty Grant (RICOG)	Developing Regional Capacity	North Valley Job Training Consortium (NOVA)	Santa Clara, San Mateo	INFORMATION TECHNOLOGY & HEALTH/BIO MEDICINE	\$ 200,000			
Regional Industry Clusters of Opportunigty Grant (RICOG)	Developing Regional Capacity	Contra Costa	Alameda, Contra Costa, Solano	RENEWABLE ENERGY & WATER TECHNOLOGY	\$ 200,000			
					\$	248,637,999		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
CENTRAL COAST								
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Hartnell College	Monterey	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field.	\$ 999,862	New Workforce Entrants, Un/underemployed Workers	140	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	San Luis Obispo County	San Luis Obispo	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field.	\$ 610,055	New Workforce Entrants, Un/underemployed Workers	200	
Regional Industry Clusters of Opportunity Grant (RICOG)	Developing Regional Capacity	Santa Barbara	San Luis Obispo, Santa Barbara, Ventura	RENEWABLE ENERGY, ENERGY GENERATION & STORAGE, GREEN BUILDING & ENERGY EFFICIENCY, BIOFUELS, TRANSPORTATION & ALTERNATE FUELS, WATER & WASTE WATER MANAGEMENT, ENVIRO COMPLIANCE & SUSTAINABILITY PLANNING	\$ 250,000			
					\$	1,859,917		
SAN JOAQUIN VALLEY								
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Kern Community College District	Kern	The Retraining Partnerships (1A and 1B) shall include classroom and hands-on training that provides green building principles, building science fundamentals and State Energy Code licensure laws for either the residential or commercial construction sector.	\$ 766,406	Un/underemployed workers with focus on workers with construction experience	120	
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	Merced County	Merced	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 937,890	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		
California Gang Reduction, Intervention and Prevention Initiative	<u>Solar Panel Construction</u> , Building Material Recycling, Hazardous Waste Handling	San Joaquin County Office of Education	San Joaquin	The initiative will provide job training and education programs targeting 200 youths that are at-risk of joining gangs or seeking to leave them.	\$ 400,000	At-risk Youths age 14-24		
California Gang Reduction, Intervention and Prevention Initiative	<u>Solar Panel Construction</u> , Building Material Recycling, Hazardous Waste Handling	Stanislaus County Alliance	Stanislaus	The initiative will provide job training and education programs targeting 200 youths that are at-risk of joining gangs or seeking to leave them.	\$ 500,000	At-risk Youths age 14-24		
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Kern/Inyo/Mono Consortium	Kern	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field.	\$ 319,655	New Workforce Entrants, Un/underemployed Workers		
DOL Green Jobs Capacity Building	Energy and Utilities	County of Kern	Kern	Solar Installation program for adult farmworkers. Offer youth hands-on experience in green-energy technologies.	\$ 100,000	25 Adult farm-workers each semester, Youth		
DOL Green Jobs Capacity Building	Energy retrofit, Solar energy	San Joaquin County Office of Education	San Joaquin	Participants will develop skills needed for energy retrofit, solar energy and similar jobs. Also improve teachers' skills in the areas of occupational safety and hazardous-materials handling	\$ 70,000	YouthBuild participants between 18-24 year of age		
DOL Pathways of Poverty Grants	Solar Energy, Water Management, Sustainable Manufacturing, Construction	West Hills Community College District	Fresno, Kings, San Joaquin	This project will recruit rural disadvantaged adults and provide an array of supportive services including pre-training assessments, pre-employment workshops, GED training and applied basic skills remediation to prepare participants for local green employment opportunities.	\$ 3,000,000	Disadvantaged individuals		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
Employment Training Panel (Clean Energy Workforce Training Program)*	Green/Clean Technology	Farmworker Institute of Education and Leadership Development	Monterey, Kern	This program will upgrade skills for incumbent workers, and provide a trained workforce, so as to encourage retention and expansion in California for the emerging green/clean industry sector.	\$ 663,840	New-hire and incumbent workers		
Regional Industry Clusters of Opportunigty Grant (RICOG)	Developing Regional Capacity	Fresno	Amador, Calaveras, Fresno, Kern, Kings, Inyo, Madera, Mariposa, Merced, Mono, San Joaquin, Stanislaus, Tuolumne	HEALTHCARE	\$ 200,000			
					\$	6,957,791		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
SOUTHERN CALIFORNIA								
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Long Beach Community College District	Los Angeles	The Retraining Partnerships (1A and 1B) shall include classroom and hands-on training that provides green building principles, building science fundamentals and State Energy Code licensure laws for either the residential or commercial construction sector.	\$ 953,186	Un/underemployed workers with focus on workers with construction experience		
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Long Beach Community College District	Los Angeles	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 976,060	New Workforce Entrants, Un/underemployed Workers	100	
California Clean Energy Workforce Training Program	Alternative and Renewable Fuel	Long Beach City	Los Angeles	The category (3) will coordinate workforce development and training services delivery related to alternative and renewable fuel and vehicle technology.	\$ 500,000	Un/underemployed workers, incumbent workers with focus on transportation fuel, vehicle and component manufacturing related workers	210	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Los Angeles County	Los Angeles	The Retraining Partnerships (1A and 1B) shall include classroom and hands-on training that provides green building principles, building science fundamentals and State Energy Code licensure laws for either the residential or commercial construction sector.	\$ 1,000,000	Un/underemployed workers with focus on workers with construction experience	150	
California Clean Energy Workforce Training Program	Alternative and Renewable Fuel	Los Angeles County	Los Angeles	The category (3) will coordinate workforce development and training services delivery related to alternative and renewable fuel and vehicle technology.	\$ 500,000	Un/underemployed workers, incumbent workers with focus on transportation fuel, vehicle and component manufacturing related workers	150	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	North Orange County Community College District	Orange	The Retraining Partnerships (1A and 1B) shall include classroom and hands-on training that provides green building principles, building science fundamentals and State Energy Code licensure laws for either the residential or commercial construction sector.	\$ 1,000,000	Un/underemployed workers with focus on workers with construction experience	165	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	College of the Desert	Riverside	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 815,843	New Workforce Entrants, Un/underemployed Workers		
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Los Angeles City	Los Angeles	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 1,000,000	New Workforce Entrants, Un/underemployed Workers	200	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Los Angeles Trade Technical College	Los Angeles	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 1,000,000	New Workforce Entrants, Un/underemployed Workers	150	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	San Bernardino Community College District	San Bernardino	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 869,651	New Workforce Entrants, Un/underemployed Workers	200	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	South Bay Workforce Investment Board	Los Angeles	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 529,858	New Workforce Entrants, Un/underemployed Workers	70	

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	Long Beach City	Los Angeles	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 935,797	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	Los Angeles Community College District	Los Angeles	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 937,890	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		
California Green Jobs Corps	Energy Efficiency, Green Construction, Green Waste, Solar Power, Alternative Automotive Fuel	Orange County	Orange	The regional programs will provide Green Jobs Corps opportunities for 1,500 at-risk youth aged 16-24. Participants will receive career training in various green courses.	\$ 937,890	Out-of-School Youth, Foster Youth, Youth Offender, Youth with disability, Migrant and seasonal farm worker youth, Youth of incarcerated parents, Native American and Indian youth, Requires additional assistance to complete an educational programs or to secure and hold employment		
Construction Talent Transfer Program	Construction	Playa Vista Job Opportunities and Business Services	Los Angeles	The program will provide focused job training in areas including commercial concrete, welding, electrical, drywall and other construction trades to assist nearly 600 displaced residential construction workers.	\$ 450,000	Unemployed, Displaced Construction Workers		Programs are potentially 'green' but cannot be identified
Construction Talent Transfer Program	Construction	Riverside County Economic Development Agency	Riverside	The program will provide focused job training in areas including commercial concrete, welding, electrical, drywall and other construction trades to assist nearly 600 displaced residential construction workers.	\$ 450,000	Unemployed, Displaced Construction Workers		Programs are potentially 'green' but cannot be identified
California Gang Reduction, Intervention and Prevention Initiative	<u>Solar Panel Construction</u> , Building Material Recycling, Hazardous Waste Handling	City Impact	Ventura	The initiative will provide job training and education programs targeting 200 youths that are at-risk of joining gangs or seeking to leave them.	\$ 500,000	At-risk Youths age 14-24		
DOL Energy Training Partnership	Energy-Efficiency Building and Retrofit Industries, and Energy Efficiency Assessment	H-CAP Inc	Los Angeles & Riverside	The program will provide green enhanced skills training to job-seekers and entry level environmental service workers for new and emerging green occupations in the Healthcare industry.	\$ 723,000	Immigrants and minorities		
DOL Energy Training Partnership	Energy-Efficiency Building Construction and Retrofitting	International Training Institute for the Sheet Metal and Air Conditioning Industry	Los Angeles, Anaheim, Long Beach, Riverside, San Bernardino	Grantee will prepare unemployed and incumbent sheet metal workforce for careers in energy efficient building construction, retrofitting, and manufacturing by customized training.	\$ 4,995,188	Unemployed and underemployed individuals, veterans, minorities and women		
DOL Energy Training Partnership	Energy-Efficiency and Clean Energy	Utility Workers Union of America (UWUA), AFL-CIO	Los Angeles	The program will implement the Green Skills=Green jobs project to provide safety, technical and green skills training. Participants will receive pre-apprenticeship training programs	\$ 4,993,922	Women, minorities, older youth and incumbent workers		
DOL Green Jobs Capacity Building	Green Construction, Energy Efficiency, and Weatherization	Coalition for Responsible Community Development	Los Angeles	Used to establish the "Green Jobs Training Initiative." Curriculum will be developed to include green construction, energy efficiency, and weatherization and provide development to faculty members.	\$ 100,000	YouthBuild Program participants		
DOL Green Jobs Capacity Building	Green Building and Renewable Energy	Los Angeles Communities Advocating for Unity, Social Justice and Action (La Causa)	Los Angeles	Grantee will develop a green building curriculum to include renewable energy, water conservation, energy efficiency and weatherization; solar accredited training and weatherization certification for staff.	\$ 100,000	YouthBuild Program participants		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
DOL Green Jobs Capacity Building	Green Construction	Mojave Basin Youth Corps, Inc	Adelato, Apple Valley, Hesperia, and Victorville	MBYC will create a curriculum designed to create career pathways for participants in Green Construction. A industry-recognized certificate will be offered.	\$ 83,455	YouthBuild Participants		
DOL Green Jobs Capacity Building	Photovoltaic, Weatherization and Energy	San Gabriel Valley Conservation and Service Corps	Los Angeles	Program will prepare hundreds of participants over the three program cycles for careers in Photovoltaic installation, weatherization and energy audits.	\$ 98,122	Youth		
DOL Green Jobs Capacity Building	Green Building	Women in Non Traditional Employment Roles	Los Angeles	Program will provide training for low-income women in green-building careers.	\$ 100,000	124 Low-Income Women		
Recovery Act Tax Credits for New Clean-Tech Manufacturing Jobs	Battery	Aerovironment, Inc.	Los Angeles	Aeroenvironment plans to manufacture a patent pending Mobile Charger that combines a battery pack with a Level 3 DC connector. It is designed for on-road service trucks to provide a quick charge to stranded battery electric vehicles similar to an "out-of-gas" situation.	\$ 310,800			
Recovery Act Tax Credits for New Clean-Tech Manufacturing Jobs	Battery	Aerovironment, Inc.	Los Angeles	Aeroenvironment plans to purchase equipment for manufacturing 25kWh LiTiO advanced battery packs and battery management systems.	\$ 369,600			
Recovery Act Tax Credits for New Clean-Tech Manufacturing Jobs	Solar Hot Water	Sun Earth, Inc.	San Bernardino	SunEarth, Inc will manufacture liquid flat plate solar thermal collectors for medium temperature domestic water heating and industrial processes and will manufacture standard and custom rolled and ultrasonically welded absorber plates and fin-tubes. The resulting technologies will be used in energy efficient solar hot water heaters.	\$ 288,600			
DOL Pathways of Poverty Grants	Energy-Efficient Building, Construction and Retrofit; Renewable Electric Power	Jobs for the Future Inc. (JFF)	Los Angeles	Jobs for the Future, in partnership with the AFL-CIO Working for America Institute, will dramatically ramp up pathways into green industries for unemployed and disadvantaged individuals in neighborhoods in five cities that are seriously impacted by the current economic downturn: Chicago, Detroit, Los Angeles, Milwaukee, and Philadelphia.	\$ 2,040,000	Unemployed and disadvantaged individuals		
DOL Pathways of Poverty Grants	Green Building Construction and Retrofit	Los Angeles Community College District (LACCD)	Los Angeles	The grantee will recruit, train, and provide placement services to unemployed or dislocated workers in the energy efficiency, weatherization, and green building retrofit sectors.	\$ 4,000,000	Dislocated, unemployed, underemployed, low-income workers, and veterans		
Industries with Statewide Need	Transportation, Warehousing and Other Services Sector	Los Angeles Community College District	Los Angeles	The project proposes to offer short-term training on topics related to the advanced transportation and sustainable business practice categories.	\$ 1,000,000	Unemployed, incumbent workers and career-transitioning workers	220	
Industries with Statewide Need	Transportation, Warehousing and Other Services Sector	Foothill Employment and Training Consortium	Los Angeles	Foothill WIB has developed a demand driven partnership which focuses on employing individuals in the field of automotive technology. It has developed a training design which will result in employment in demand occupations for the targeted participants.	\$ 600,000	At-risk out -of-school youth, dislocated workers, incumbent workers, veterans	80	
Industries with Statewide Need	Transportation, Warehousing and Other Services Sector	Victor Valley Community College	San Bernardino	The grantee and its partners will provide industry-approved training and certification to prepare workers for careers as: 1) Automotive Service Technicians with new skills for maintenance of Hybrid Vehicles; 2) Diesel Truck Maintenance Technicians, and 3) FAA Certified Airframe & Power plant Technicians.	\$ 837,500	Low-income, unemployed residents and dislocated workers	150	
Regional Industry Clusters of Opportunigty Grant (RICOG)	Developing Regional Capacity	Pacific Gateway Workforce Investment Board	Los Angeles, Orange, Ventura	GREEN ECONOMY STUDY - ENERGY GENERAITON, ENERGY STORAGE, ENERGY EFFICIENCY, WATER & WASTE WATER, TRANSPORTATION	\$ 249,987			
Regional Industry Clusters of Opportunigty Grant (RICOG)	Developing Regional Capacity	San Bernardino	Riverside, San Bernardino	RENEWABLE ENERGY & "RECESSION RESISTANT CLUSTER"	\$ 249,000			
					\$	34,495,349		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
SOUTHERN BORDER								
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Grossmont-Cuyamaca Community College District	San Diego	The Retraining Partnerships (1A and 1B) shall include classroom and hands-on training that provides green building principles, building science fundamentals and State Energy Code licensure laws for either the residential or commercial construction sector.	\$ 1,000,000	Un/underemployed workers with focus on workers with construction experience	250	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	Imperial Valley College	Imperial	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 439,578	New Workforce Entrants, Un/underemployed Workers	25	
California Clean Energy Workforce Training Program	Alternative and Renewable Fuel	Imperial County	Imperial	The category (3) will coordinate workforce development and training services delivery related to alternative and renewable fuel and vehicle technology.	\$ 500,000	Un/underemployed workers, incumbent workers with focus on transportation fuel, vehicle and component manufacturing related workers	75	
California Clean Energy Workforce Training Program	Green Building and Clean Energy	San Diego Workforce Partnership	San Diego	The Pre-Apprenticeship Training Partnerships (2A and 2B) will provide an understanding of basic construction practices with a solid grounding in green building, energy and water efficiency and distributed generation renewable energy practices/technologies to prepare individuals for work in the building retrofit field	\$ 700,000	New Workforce Entrants, Un/underemployed Workers	160	
DOL Green Jobs Capacity Building	Emerging Green Sectors	San Diego Imperial Counties Labor Council	San Diego	A research-based green jobs curriculum will serve as a road map for workers to obtain the skills to enter into union apprenticeships leading to jobs in the green economy.	\$ 100,000	Workers entering into union apprenticeships		
DOL Green Jobs Capacity Building	Green -Builder and Retrofitting	Able-Disabled Advocacy Inc.	San Diego	Participants will learn skills needed for occupations such as Green Builder and retro-fitter; Solar System Installer; Wind Turbine Technician ; and Energy Efficiency Auditor	\$ 100,000	At-risk, drop-out youth with disabilities and low-income adults with disabilities.		
Employment Training Panel (Clean Energy Workforce Training Program)*	Green/Clean Technology	Home Energy Systems, Inc.	San Diego	This program will upgrade skills for incumbent workers, and provide a trained workforce, so as to encourage retention and expansion in California for the emerging green/clean industry sector.	\$ 110,500	New-hire and incumbent workers		
Regional Industry Clusters of Opportunigty Grant (RICOG)	Developing Regional Capacity	San Diego	San Diego	HEALTHCARE/COMMUNICATION CONVERSION	\$ 200,000			
					\$	3,150,078		
STATEWIDE								
DOL LMID	Labor Market Research	EDD's Labor Market Information Division	Statewide	Work will enable the grantee to estimate the number of green jobs in California, identify emerging occupations, job skills and training needed for employment in these occupations.	\$ 1,250,000	State employees		
Dept of Energy	Solar	California Solar Training Partnership	Statewide	The partnership will develop a regional resource and training center.	\$ 3,500,000	Trainers for solar photovoltaic, solar heating and cooling techniques		
DOL Energy Training Partnership	Wind Energy	National Ironworkers and Employers Apprenticeship Training and Journeyman Upgrading Fund	Statewide	Project will provide training to ironworkers to up-skill for the renewable wind energy sector, and place them on wind-turbine erection projects.	\$ 1,943,931	Dislocated Workers		
DOL Energy Training Partnership	Construction and Building Maintenance	LMCC-IBEW-NECA	Statewide	California Advanced Lighting Controls Training Program will train electricians in design, installation, and maintenance of advanced lighting controls to improve energy efficiency in commercial facilities	\$ 5,000,000	Unemployed and underemployed electricians		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	# served	REMARKS
DOL State Energy Sector Partnership and Training Grants	Energy and Water Efficiency, Demand Response, Renewable Energy, Clean Vehicle & Renewable Transportation Fuel Industries, Electricity Transmission and Distribution Infrastructure	California Workforce Investment Board & Employment Development Department	Statewide	The grantee will utilize this funding to support six Regional Teams - San Diego Workforce Partnership, Sacramento Employment and Training Agency, Northern Rural Training and Employment Consortium, Los Angeles City Workforce Investment Board, Alameda County Workforce Investment Board, and San Joaquin Valley Local Workforce Investment Boards - in the development of training programs in emerging energy efficiency and renewable energy industries. Training activities includes Green Building Partnership, Clean Energy Retraining Partnership, Pre-apprenticeship Training, and Alternative and Renewable Fuel and Vehicle Technologies programs.	\$ 6,000,000	Dislocated workers, veterans, unemployed and underemployed workers, low-income youth and adults, new workforce entrants, individuals with disabilities and individuals with criminal records		

FEDERAL AND STATE GRANTS WITH SPECIFIC FOCUSED ON GREEN TRAINING PROGRAMS (Non-ARRA)

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	REMARKS
NORTHERN SACRAMENTO VALLEY							
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Fair View HS - Building Design and Construction Academy	Butte	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Paradise HS - Green Academy	Butte	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
Economic and Workforce Development Program: Industry Driven Regional Collaboratives Grants	Industries that are part in the Green Economy	Shasta College - Green Workforce Training	Shasta-Tehama-Trinity	The grants provide funds to community colleges FY 2009-10 for flexible, short-term, "design it yourself" local projects and to meet regional business needs, particularly in high growth, emerging technology industries.	\$ 311,680		State Budget revisions reduced EWD Program dollars, and subsequently, IDRC Grants amounts for FY 2009-2010
					\$ 395,680		
GREATER SACRAMENTO							
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	Sacramento Employment Training Agency	Sacramento	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 500,000	Gang members, gang-involved, or at-risk of gang involvement youth who are in or out of school, and are 14-24 years of age	
California Partnership Academy Program	Green Academy	Laguna Creek High - Green Energy Technology Academy	Sacramento	This program is a Senate Bill (SB) 70 Governor's Career Technical Education Initiative funding results for fiscal year (FY) 2009-10.	\$ 72,000	Grades 9 to 12 Students	
California Partnership Academy Program	Green Academy	Laguna Creek High - Green Energy Technology Academy	Sacramento	This program is a Senate Bill (SB) 70 Governor's Career Technical Education Initiative funding results for fiscal year (FY) 2008-09.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Franklin HS - Green Engineering Academy	Sacramento	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Pleasant Grove HS - CADD/COMM Academy	Sacramento	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Cosumnes Oaks High School - Green Engineering and Design Academy	Sacramento	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
Southern California Edison's Green Jobs Education Initiative	Green Jobs/Fields	California Community Colleges	Sacramento	This \$1 million gift will launch "Green Jobs Education Initiative," providing scholarship support for community colleges students seeking training or certification in green jobs or fields.	\$ 1,000,000	Community College students	
					\$ 1,727,000		

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	REMARKS
BAY AREA							
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	Oakland Private Industry Council	Alameda	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 499,700	Gang members, gang-involved, or at-risk of gang involvement youth who are, in or out of school, and are 14-24 years of age	
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	San Jose Conservation Corp	Santa Clara	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 500,000	Gang members, gang-involved, or at-risk of gang involvement youth who are, in or out of school, and are 14-24 years of age	
California Partnership Academy Program	Green Academy	John F. Kennedy High - Green Tech Academy	Alameda	This program is a Senate Bill (SB) 70 Governor's Career Technical Education Initiative funding results for fiscal year (FY) 2009-10.	\$ 72,000	Grades 9 to 12 Students	
California Partnership Academy Program	Green Academy	Montgomery high - Green Construction and Design Academy	Sonoma	This program is a Senate Bill (SB) 70 Governor's Career Technical Education Initiative funding results for fiscal year (FY) 2009-10.	\$ 72,000	Grades 9 to 12 Students	
California Partnership Academy Program	Green Academy	John F. Kennedy High - Green Tech Academy	Alameda	This program is a Senate Bill (SB) 70 Governor's Career Technical Education Initiative funding results for fiscal year (FY) 2008-09.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academy Program	Green Academy	Montgomery high - Green Construction and Design Academy	Sonoma	This program is a Senate Bill (SB) 70 Governor's Career Technical Education Initiative funding results for fiscal year (FY) 2008-09.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Kennedy (John F.) HS - Green Ventures Academy	Alameda	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Oakland Technical HS - Green Academy	Alameda	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	San Lorenzo HS - Green Academy	Alameda	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	College Park HS - Eco Technology Academy	Contra Costa	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	EI Cerrito HS - Automotive Technology and Alternative Energy Academy	Contra Costa	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Lincoln (Abraham) HS - Green Academy	San Francisco	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Woodside HS - Efficient Use of Water and Energy Green Academy	San Mateo	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	REMARKS
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Hill (Andrew P.) HS - Green Tech and Sustainability Academy	Santa Clara	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Mt. Pleasant HS - Green Remodeling & Construction Academy	Santa Clara	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Overfelt (William C.) HS - Green Careers Academy	Santa Clara	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Yerba Buena HS - Construction Technology Academy	Santa Clara	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Hayward High School - Green Energy Academy	Alameda	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Livemore High School - Green Engineering Academy	Alameda	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Skyline High School - Renewable Energy Academy	Alameda	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Clayton Valley High School - Engineering/Design Academy	Contra Costa	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Vintage High School - The Green Academy	Napa	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Soquel High School - Green MEC Academy	Santa Cruz	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Benicia High School - Environmental Resource Management Academy	Solano	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Vallejo High School - Apache Engineering Academy	Solano	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
					\$	1,921,700	

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	REMARKS
CENTRAL COAST							
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	Monterey County	Monterey	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 500,000	Gang members, gang-involved, or at-risk of gang involvement youth who are, in or out of school, and are 14-24 years of age	
Economic and Workforce Development Program: Industry Driven Regional Collaboratives Grants	Industries that are part in the Green Economy	Hartnell College - Sustainable Design Associate of Science Degree	Monterey	The grants provide funds to community colleges FY 2008-10 for flexible, short-term, "design it yourself" local projects and to meet regional business needs, particularly in high growth, emerging technology industries.	\$ 326,249		State Budget revisions reduced EWD Program dollars, and subsequently, IDRC Grants amounts for FY 2009-2011
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Salinas High School - Sustainable Design and Green Construction Academy	Monterey	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
					\$	855,249	
SAN JOAQUIN VALLEY							
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	Fresno County	Fresno	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 475,000	Gang members, gang-involved, or at-risk of gang involvement youth who are, in or out of school, and are 14-24 years of age	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Edison HS - Clean and Green Academy	Fresno	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Central HS - Central Agricultural Science Academy	Fresno	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Weber Institute of Applied Sciences & Technology- Green Technology/Alternative Energies Academy	San Joaquin	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Ceres HS - Manufacturing "Fast Track" Program Academy	Stanislaus	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Porterville HS - Alternate Energy Resource Occupations Academy	Tulare	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
Economic and Workforce Development Program: Industry Driven Regional Collaboratives Grants	Industries that are part in the Green Economy	West Hills Community College - Emerging Industries (Ag Manufacturing & Solar)	Fresno	The grants provide funds to community colleges FY 2009-10 for flexible, short-term, "design it yourself" local projects and to meet regional business needs, particularly in high growth, emerging technology industries.	\$ 373,472		State Budget revisions reduced EWD Program dollars, and subsequently, IDRC Grants amounts for FY 2009-2011
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Arvin High School - Environmental Horticulture Academy	Kern	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	REMARKS
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Bear Creek High School - Green Energy and Technology Academy	San Joaquin	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
					\$	1,116,472	

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	REMARKS
SOUTHERN CALIFORNIA							
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	Foothill Employment and Training Consortium	Los Angeles	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 500,000	Gang members, gang-involved, or at-risk of gang involvement youth who are, in or out of school, and are 14-24 years of age	
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	Los Angeles Community College District	Los Angeles	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 500,000	Gang members, gang-involved, or at-risk of gang involvement youth who are, in or out of school, and are 14-24 years of age	
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	Los Angeles Conservation Corps	Los Angeles	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 500,000	Gang members, gang-involved, or at-risk of gang involvement youth who are, in or out of school, and are 14-24 years of age	
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	SELACO Workforce Investment Board	Los Angeles	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 500,000	Gang members, gang-involved, or at-risk of gang involvement youth who are, in or out of school, and are 14-24 years of age	
California Partnership Academy Program	Green Academy	Alhambra High - A.H.S. Green Construction Academy	Los Angeles	This program is a Senate Bill (SB) 70 Governor's Career Technical Education Initiative funding results for fiscal year (FY) 2009-10.	\$ 72,000	Grades 9 to 12 Students	
California Partnership Academy Program	Green Academy	Oxnard High - Green Technologies Academy	Ventura	This program is a Senate Bill (SB) 70 Governor's Career Technical Education Initiative funding results for fiscal year (FY) 2009-10.	\$ 72,000	Grades 9 to 12 Students	
California Partnership Academy Program	Green Academy	Alhambra High - A.H.S. Green Construction Academy	Los Angeles	This program is a Senate Bill (SB) 70 Governor's Career Technical Education Initiative funding results for fiscal year (FY) 2008-09.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academy Program	Green Academy	Oxnard High - Green Technologies Academy	Ventura	This program is a Senate Bill (SB) 70 Governor's Career Technical Education Initiative funding results for fiscal year (FY) 2008-09.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Eastside HS - School of Environmental Research and Science Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Littlerock HS - Agriculture and Environmental Science Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Palmdale HS - Environmentally Sustainable Design and Technology Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Belmont Senior HS - School of Science, Arts, and Global Engineering (SAGE) Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	REMARKS
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Birmingham HS - Technology and Business Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	REMARKS
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Garfield (James A.) HS - Green Agricultural Design Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Jefferson (Thomas) HS - Engineering Design Academy for Global Outlook Through Active Leadership	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	San Fernando Senior HS - Clean and Green Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Santee Education Complex - Green energy Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Sylmar HS - Solar and Wind Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	University Senior HS - Academy of Health and Environmental Science	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Venice Senior HS - Culinary Arts and Sustainable Agriculture Academy (CASAA)	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Valley Region Byrd Reconfiguration HS - Water and Energy Technology Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	La Mirada HS - Solar Energy Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Ganesha HS - Green/environmental Science Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	La Serna HS - Green and Clean Business Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Keppel (Mark) HS - Automotive Technology Skills Academy	Los Angeles	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Arroyo Valley HS - Culinary Organic Recyclable Environment (C.O.R.E.) Academy	San Bernardino	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Mountain View High School - Green Tech Academy	Los Angeles	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	REMARKS
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Foothill High School - Foothill Green Power Academy	Orange	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Tustin High School - Tustin High Engineering Academy	Orange	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Desert Hot Springs High School - Alternative Energy Academy	Riverside	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Desert Mirage High School - Green Technology Academy	Riverside	The Green/Clean Initiative is for planning grants for 2009-10 for schools intending to implement a California Partnership Academy in "green" careers in 2010-11.	\$ 29,000	Grades 10 to 12 Students	
					\$	3,129,000	

SOURCE	INDUSTRY	GRANTEE	COUNTY	DESCRIPTION	AWARD AMOUNT	POPULATION SERVED	REMARKS
SOUTHERN BORDER							
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	Able-Disabled Advocacy, Inc.	San Diego	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 500,000	Gang members, gang-involved, or at-risk of gang involvement youth who are, in or out of school, and are 14-24 years of age	
California Gang Reduction, Intervention and Prevention Initiative	Green Industry	San Diego Imperial Counties Labor Council	San Diego	The participants will receive a broad range of services, including mental health services, gang counseling, educational skills, occupational training in business services, biotech areas and green industry apprenticeships	\$ 500,000	Gang members, gang-involved, or at-risk of gang involvement youth who are, in or out of school, and are 14-24 years of age	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Santana HS - Environmental Design Pathway Academy	San Diego	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Kearny Science, Connections & Technology - Environmental Technology Academy	San Diego	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	Southwest HS - Eco-Engineering Program Academy	San Diego	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	
California Partnership Academies Green Academy Planning Grants	Green/Clean Academy	North County Trade Tech HS - GreenBuild Tech Academy	San Diego	The Green/Clean Initiative is for planning grants for FY 2008-09 for schools intending to implement a California Partnership Academy in "green" careers.	\$ 42,000	Grades 9 to 12 Students	

Summary of total Dollars by Region

	Population	ARRA	Non-ARRA	Regional Total
Northern CA	532,460	\$1,812,265	\$0	\$1,812,265
N. Sac Valley	511,542	\$8,170,648	\$395,680	\$8,566,328
Greater Sac	2,275,106	\$5,047,202	\$1,727,000	\$6,774,202
Bay Area	7,354,555	\$248,637,999	\$1,921,700	\$250,559,699
Central Coast	1,078,931	\$1,859,917	\$855,249	\$2,715,166
San Joaquin Valley	3,862,937	\$6,957,791	\$1,116,472	\$8,074,263
Central Sierra	189,672	\$0	\$0	\$0
Southern CA	17,786,419	\$34,495,349	\$3,129,000	\$37,624,349
Border	3,165,044	\$3,150,078	\$1,197,000	\$4,347,078
Statewide	36,756,666	\$19,160,726	\$0	\$19,160,726
ARRA Total		\$310,131,249		
Non-ARRA Total			\$10,342,101	
Grand TOTAL				\$320,473,350
	% of State Pop.	% CA ARRA*	% CA non-ARRA*	% CA total \$*
Northern CA	1%	0.584%	0.00%	0.57%
N. Sac Valley	1%	2.635%	3.83%	2.67%
Greater Sac	6%	1.627%	16.70%	2.11%
Bay Area	20%	80.172%	18.58%	78.18%
Central Coast	3%	0.600%	8.27%	0.85%
San Joaquin Valley	11%	2.243%	10.80%	2.52%
Central Sierra	1%	0.000%	0.00%	0.00%
Southern CA	48%	11.123%	30.25%	11.74%
Border	9%	1.016%	11.57%	1.36%
	100%	100.00%	100.00%	100.00%

*Does not include statewide grants

Summary of total Dollars by Region

