












# Bay Area Community College Response To The Emerging New Energy Sector

The colleges below are partners in the **NEW ENERGY WORKFORCE (NEW) Initiative** – a consortium of community colleges working together to respond to industry’s current and emerging new energy workforce needs.

 <p><b>ECONOMIC &amp; WORKFORCE DEVELOPMENT</b> through the CALIFORNIA COMMUNITY COLLEGES</p>	<p><b>DE ANZA COLLEGE: Center for Applied Competitive Technologies</b> Overseeing a Silicon Valley Solar Industry-Driven Regional Collaborative (IDRC) Grant for Solar Photovoltaic Panel Installers. This is a strategic regional response to meet the need for a skilled workforce in photovoltaic solar system design and installation. Partners: Silicon Valley Leadership Group, SolarTech, NOVA WIB, and Mission, San Jose City, Cabrillo, West Valley, and Ohlone community colleges. De Anza’s Environmental Studies program housed in the LEED certified Kirsch Center is developing a Solar PV program for fall 2008. <b>Contact:</b> Rick Kuhn, <a href="mailto:KuhnRick@fhda.edu">KuhnRick@fhda.edu</a>, (408) 864-8302</p>
 <p><b>Silicon Valley Workplace Center</b> MISSION COLLEGE 3000 Mission College Blvd. Santa Clara, CA 95054 (408) 855-5201</p>	<p><b>MISSION COLLEGE: Silicon Valley Workplace Learning Resource Center</b> Instrumental in creating the NEW Initiative; plays a critical role in insuring cooperation among community colleges, increasing their ability to agilely respond to the current trends in Clean and Green Technology. <b>Contact:</b> Bruce Whistler, <a href="mailto:bruce_whistler@wvm.edu">bruce_whistler@wvm.edu</a>, (408) 855-5204</p>
 <p><b>ECONOMIC &amp; WORKFORCE DEVELOPMENT</b> through the CALIFORNIA COMMUNITY COLLEGES</p>	<p><b>CITY COLLEGE OF SAN FRANCISCO &amp; WEST VALLEY COLLEGE: Centers of Excellence &amp; Advanced Transportation Technology and Energy Initiatives</b> Conducted a Bay Region Solar Industry Workforce Study that:</p> <ol style="list-style-type: none"> <li>1. Identifies solar firms in the Bay Area, their geographical concentration, size of firms and major sectors.</li> <li>2. Identifies key solar occupations that are most relevant to community colleges.</li> <li>3. Projects future employment growth and identifies employer challenges in recruiting, hiring, and retaining their workforce.</li> </ol> <p><b>Contacts:</b> John Carrese, <a href="mailto:jcarrese@ccsf.edu">jcarrese@ccsf.edu</a>, (415) 267-6565; Jennifer Oliver, <a href="mailto:jennifer_oliver@westvalley.edu">jennifer_oliver@westvalley.edu</a>, (408) 741-2653</p>
 <p><b>CITY COLLEGE</b> SAN JOSE</p>	<p><b>SAN JOSE CITY COLLEGE</b> Developed and offered new courses in Green Construction and Introduction to Photovoltaic Installation Technology to prepare students for entry-level jobs. SJCC is a partner in the SV Solar IDRC grant, and will consider a certificate program in energy management. SJCC also offers training in Air Conditioning, Heating and Refrigeration, Facilities Maintenance Technology, and Construction Technology, and is a CalWomenTech partner working to recruit and retain women in the Facilities Maintenance Tech program. <b>Contact:</b> Kathy Werle, <a href="mailto:Kathy.Werle@sjcc.edu">Kathy.Werle@sjcc.edu</a>, (408) 288-3781</p>
 <p><b>Cabrillo College</b> est. 1959</p>	<p><b>CABRILLO COLLEGE</b> A partner in the SV Solar IDRC grant, Cabrillo offers a Solar Photovoltaic Design and Installation course; and plans to offer Solar Thermal courses in fall 2008. Other Cabrillo courses include Sustainable Buildings, Home Performance, and the Environment; and Fundamentals of Renewable Energy Systems. Cabrillo also provides coordination of the NEW Initiative. <b>Contacts:</b> Course info: Chuck Mornard, <a href="mailto:chmornar@cabrillo.edu">chmornar@cabrillo.edu</a>; NEW Initiative: Kitty O’Doherty, <a href="mailto:kitodoherty@gmail.com">kitodoherty@gmail.com</a>, (650) 560-9798</p>

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	<p><b>BAY AREA COMMUNITY COLLEGE CONSORTIUM</b>          Awarded Cabrillo College a Mini-Grant for providing coordination of the NEW Initiative and to Foothill College for a Cleantech job skills survey.  <b>Contact:</b> Kitty O'Doherty, <a href="mailto:kitodoherty@gmail.com">kitodoherty@gmail.com</a>, (650) 560-9798</p>
	<p><b>DIABLO VALLEY COLLEGE</b>          DVC has submitted a Photovoltaic Systems Design and Installation program for regional and state approval. Offered within the program is a NABCEP approved Photovoltaic Systems Design and Installation course during which students can take the NABCEP Entry Level Certification exam. In January 2008, DVC hosted a "Train the Trainer" PV Design and Installation course for 26 California Community College instructors to learn how to replicate DVC's successful model. DVC has been awarded a 2008-09 IDRC grant to build on these efforts.  <b>Contact:</b> Tom Chatagnier, <a href="mailto:TChatagn@dvc.edu">TChatagn@dvc.edu</a></p>
	<p><b>CITY COLLEGE OF SAN FRANCISCO: Advanced Transportation Technology and Energy Initiative</b>          Solar Installation and Hybrid Auto Technician Maintenance and Repair courses. Public workshops on solar installation.  <b>Contact:</b> Gerald W. Bernstein, <a href="mailto:GBernste@ccsf.edu">GBernste@ccsf.edu</a>, (415) 550-4437</p>
	<p><b>WEST VALLEY COLLEGE: Advanced Transportation Technology and Energy Initiative</b>          ATTE, along with U.C. Davis and Air Stream, is developing 16 short courses in a heavy wind generation technician certificate program; ATTE offers customized training in compressed natural gas courses for mechanics, decision-makers, and emergency response personnel; and has completed DACUMs (training assessments) for both Light and Heavy Duty Hybrid Technicians, Solar Installers, and Biodiesel Production Technicians among others.  <b>Contact:</b> David Esmaili, <a href="mailto:david_esmaili@wvm.edu">david_esmaili@wvm.edu</a>, (408) 741-4693</p>
	<p><b>NAPA VALLEY COLLEGE</b>          Developed an Energy and Sustainability course in General Education; Construction Technology instructor will become NABCEP Certified for a Solar Technician Training Course to be offered in fall 2009; Developing an Environmental and Energy Conservation Technology Certificate program; Currently researching Wind Energy Technician offerings.  <b>Contact:</b> Richard Della Valle, <a href="mailto:rdellavalle@ccewd.net">rdellavalle@ccewd.net</a></p>
	<p><b>CHABOT COLLEGE</b>          Chabot College, in partnership with the Alameda County Joint Apprenticeship Training Committee (JATC), International Brotherhood of Electrical Workers Local 595, and the National Electrical Contractors Association (NECA) has implemented field training addressing the installation and maintenance of solar energy panels and power systems. The curriculum, developed by the National JATC, by one of the leading experts in this field, Jim Dunlop, is the standard of the industry.  <b>Contact:</b> Tom Clark, <a href="mailto:TClark@chabotcollege.edu">TClark@chabotcollege.edu</a>, (510) 723-6653</p>
	<p><b>PERALTA COMMUNITY COLLEGE DISTRICT</b>          Formed a Green Technology Cluster Group to work with industry to develop a Green Academy.  <b>Contact:</b> Ahmad Mansur, <a href="mailto:amansur@peralta.edu">amansur@peralta.edu</a>, (510) 277-2476</p>

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	<p><b>SKYLINE COLLEGE</b></p> <p>Skyline College currently offers classes in Photovoltaic Systems to incumbent workers of local solar companies as a result of Responsive Training Funds (RTF). These workers have traditionally come through related trades, but lack the electronics and theory background to be successful with solar installation. In partnership with local companies, the college will also begin offering PV installer classes for those outside the industry and in related trades.</p> <p><b>Contact:</b> Mike Williamson, <a href="mailto:williamsonm@smccd.edu">williamsonm@smccd.edu</a>, (650) 738-4221</p>
	<p><b>LANEY COLLEGE</b></p> <p>The Environmental Control Technology (HVAC/R) program prepares students in residential, light commercial, and commercial HVAC and refrigeration, with emphasis on building performance and energy efficiency. We offer a certificate in residential/light commercial HVAC/R, an advanced certificate in commercial HVAC, and an AS degree in Environmental Control Technology. Laney has comprehensive lab facilities, including a real life commercial HVAC system. Laney recently received an IDRC grant to develop a Certificate for Controls Technicians, with emphasis on energy efficiency and whole building performance.</p> <p><b>Contact:</b> Barbara Widhalm, <a href="mailto:bwidhalm@peralta.edu">bwidhalm@peralta.edu</a>, (510) 464-3248</p>
	<p><b>COLLEGE OF SAN MATEO</b></p> <p>Two courses in Alternative and Renewable Energy are now offered at the College of San Mateo. The first course "Power for the Future", covers comparisons of renewable and non-renewable energy sources and their impact on global warming and the environment. The second is a "Solar Fundamentals" course that includes a laboratory and hands-on component as well as coverage of Solar Thermal systems. Both of these courses will become part of a certificate program the College of San Mateo plans to launch in the near future.</p> <p><b>Contact:</b> Tom Diskin, <a href="mailto:diskin@smccd.edu">diskin@smccd.edu</a>, (650) 574-6133</p>
	<p><b>These are just some of the efforts underway at community colleges throughout the state.</b></p>

For more information about the NEW Initiative or to join the collaboration contact:  
 Kitty O'Doherty, [kitodoherty@gmail.com](mailto:kitodoherty@gmail.com), (650) 560-9798 OR <http://www.newenergyworkforce.com/>