



COE

CENTERS OF EXCELLENCE
Inform Connect Advance



Career Fact Sheet *Energy Efficiency* *Tools for the Career Counselor*

Inland Empire

This data was prepared for California Community Colleges and pertains to community college-level coursework as a resource for counselors to share with students.

The Bottom Line

California has moved aggressively to establish a legislative and policy framework that puts energy efficiency at the forefront, in an effort to meet the state's increasing energy needs and fight global warming. Firms that hire energy efficiency workers are found in multiple industries. The following are five industry groups with the greatest concentration of energy efficiency occupational opportunities. This information comes from an Inland Empire study of energy efficiency conducted by the COE in 2009. More information on this study, including other regions within California, can be found at www.coecc.net/energy.

Utilities & Resource Management

Includes occupations that are engaged in assessment and planning for energy efficiency.

Design & Construction of New Buildings

Includes occupations that are focused on building and designing new energy efficient structures (residential and commercial focus, new structures only).

Retrofitting Homes

Includes occupations that are focused on building and designing energy efficient homes (residential focus, existing buildings only).

Retro-commissioning Buildings

Includes occupations that are focused on building and designing energy efficient facilities (commercial focus, existing buildings only).

Facility or Building Operation & Maintenance

Includes occupations focused on repair and maintenance of new energy efficiency systems that are used in new and retrofitted buildings and facilities.

Regional Snapshot

Eight energy efficiency occupations were identified as high-growth and can be trained for at community colleges. Below is a table that details these occupations and their growth potential in the Inland Empire. More detailed occupational information is available in the complete environmental scan (see Appendix I) at www.coecc.net/energy or visit online.onetcenter.org.

Energy Efficiency Occupations	2009 Employment Estimate	3-year Projected Growth	Growth Rate	Entry Level Median Annual Wage	Experienced Level Median Annual Wage
Project managers for construction or design work	3,360	740	22%	\$50,000	\$80,000
Building performance or retrofitting specialists	970	830	86%	\$39,500	\$52,000
HVAC mechanics, technicians or installers	1,360	350	26%	\$38,400	\$52,000
Energy auditors or home energy raters	720	480	67%	\$40,000	\$51,000
Resource conservation or energy efficiency managers	540	160	30%	\$52,400	\$71,400
Building controls systems technician	630	280	45%	\$46,600	\$54,000
Compliance analyst or energy regulation specialists	570	110	19%	\$39,500	\$61,200
Building operators or building engineers	640	70	11%	\$61,900	\$80,000
Total, All Occupations (totals may not add due to rounding)	8,790	3,030			

Student Tips

- **Skills Employers Seek:** Employers emphasize that communication skills [written and verbal] are the most important skills they value in new employees.
- **Internships Encouraged:** A recent survey of energy efficiency firms in the Inland Empire revealed that 6 out of 10 employers expressed interest in working with colleges to provide internships for students. Some of the key associations connected to employers working within the energy efficiency sector include:
 - American Society of Heating, Refrigerating, and Air Conditioning Engineers [ASHRAE], www.ashrae.org
 - Green Valley Initiative, www.greenvalleynow.org
 - Southern California Edison, www.sce.com
 - US Green Building Council, Inland Empire Chapter, www.usgbc-ie.org

For an expanded list of community support and resources in the Inland Empire, download the complete environmental scan at www.coecc.net/energy.

Educational Track

Here is a listing of community colleges in the Inland Empire offering energy efficiency industry programs. For more information, access the complete environmental scan at www.coecc.net/energy.

inform
connect
advance

COLLEGE	Energy Efficiency Related Programs							
	Environmental Science	Environmental Studies	Environmental Technology	Industrial Systems Technology & Maintenance	Environmental Controls Tech	Construction Crafts Technology	Civil & Construction Management Technology	Construction Inspection
	An "X" indicates a Certificate or Degree is approved, but may not be currently offered							
College of the Desert	X	X			X		X	X
Copper Mountain	X							
Crafton Hills	X							
Palo Verde			X			X		
Riverside					X			X
San Bernardino Valley	X	X		X	X			X
Victor Valley						X	X	X