

# Energy Audit Techniques Training for Small & Medium Commercial Facilities

**February 1st - 3rd, 2017**  
**FREE Three-day Event**

The Energy Audit Techniques Training workshop (breakfast & lunch will be provided each day) was designed to develop the energy auditing skills of individuals associated with small-and medium-sized (under 500 kW) commercial facilities. Get an overview of building technologies with an emphasis on distinguishing older, inefficient equipment from newer efficient systems.

In-class exercises and a mock-audit at the end of the last day will allow attendees to apply what they have learned. Attendees should have a fundamental understanding of building components and energy concepts. The class will begin with a discussion of energy and building terms and be followed by a module on utility rates and billing data analysis. The overview of building technologies and efficiencies will include modules on lighting, mechanical systems, motors, refrigeration, gas, envelope, kitchen equipment and renewables.

Because identifying retrofit opportunities is the focus of this training, instructors will illustrate optimal equipment choices through samples, images of real installations, and performance data. Measurement tools that auditors use to identify equipment efficiencies or to test system performance will be demonstrated with each topic. Each module will include a section on calculating energy savings for various applications. Several in-class exercises using real-world data will be built around these calculations.

Join us for this Free three-day Workshop (overnight accommodations not included) offered by SoCalGas, PG&E and SCE in cooperation with The South County Energy Efficiency Partnership and the Santa Barbara Energy Watch. Visit <http://66.198.243.12/event-details?EventID=16818> for more details. Event location is at the Historic Santa Maria Inn, Cabana Conference Room, 801 South Broadway St., Santa Maria, CA 93454, (805) 928-7777.

## Our Partners



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The Ventura Partnership Program is funded by California utility ratepayers and administered by Southern California Gas Company and Southern California Edison, in collaboration with Ventura County Regional Energy Alliance (VCREA), under the auspices of the California Public Utilities Commission. Copyright 2014 Ventura County Regional Energy Alliance. Trademarks are the property of their respective owners. All rights reserved. Some materials used under license with all rights reserved by the Licensor.



# Energy Leader Newsletter

Jan-Mar 2017



**VCREA**  
Ventura County Regional Energy Alliance

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## 'SMART' SAVINGS

### About VCREA

VCREA is a Joint Powers Agency composed of public agencies working in collaboration to address good energy stewardship through integrated demand side management practices in the Ventura County region.

### Ventura Partnership

The Ventura Partnership encompasses the cities of Camarillo, Fillmore, Moorpark, Ojai, Oxnard, Port Hueneme, Santa Paula, Simi Valley, Thousand Oaks, the City of Ventura, and the County of Ventura to support energy efficiency improvements in public agencies and throughout the community.

### Our Website and Newsletter

Energy Leader is a quarterly publication published to provide valuable resources and information regarding energy efficiency in the Ventura County region. To receive our newsletter by e-mail, please log on to [www.vcenergy.org](http://www.vcenergy.org). VCREA is your one source resource for energy efficiency.

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Use energy smarter in your home, office or on the go with automation. Recent innovations in automation systems connect a variety of 'smart' devices to allow easy central command, often with remote access. These programmable systems allow data analysis, autonomous actions and alerts for safety, comfort and savings.

The advantages of the new suite of technologies offer interconnected devices to help consumers find effective energy efficiency solutions that save time, energy and money. Here are some ways you can make your energy use smarter:



**Upgrade to Energy Efficient Devices.** Older equipment (such as old washing machines, refrigerators, water heaters) have lower performance and generate more costs to operate than their newer, energy efficient versions. Over time, consumers waste more energy and money by avoiding equipment upgrades than the amortized initial investment.

**Use More Daylight.** In addition to providing health benefits, maximizing natural daylight indoors reduces the need for artificial light. Enhanced environment controls can increase occupant comfort, satisfaction, and productivity. For areas or times of day when sunlight

is less available, use daylight sensing dimmer switches to allow illumination control and enhance room lighting. Save energy and enjoy the benefits of sun lit rooms.

**Use Occupancy Sensors.** Replacing light switches with dimmable presence detectors automatically saves energy in areas that are not used as often. Automatic sensors outside can offer increased safety and security while saving energy and money.

**Integrate 'Smart' Devices.** Manage your building environment with the above suggestions which can be synched with 'smart' technology allowing better controls. By knowing their usage, consumers can effectively navigate, manage and reduce their energy demand with smart devices. Improved building management translates into preventative and predictive energy usage.

Check with your utility and find out what 'smart' energy management options are available for your home or business. Homeowners with SCE and SoCalGas accounts can receive a sign-up SmartBonus and bill credits for purchasing and installing smart thermostat home automation equipment. Learn more at [pages.email.sce.com/SCESmartBonus](http://pages.email.sce.com/SCESmartBonus).

## CALGreen Title 24 Part 11 Training



### Building Green Workshop: Understanding the Code

VCREA has partnered with SCE to bring a free training opportunity, hosted by the County of Ventura Public Works Agency, Saticoy Operations Yard. The event will be held on **Tuesday, February 7, 2017**. This free four-hour course is designed for those interested in learning about the 2016 California Green Building Standards Code (CALGreen).

Cities across California are required to enforce the 2016 CALGreen Code on January 1, 2017. The course will review Residential and Non-Residential standards and demonstrate how designers and developers are addressing the requirements. New or updated standards will be highlighted in order to contrast changes from the previous code cycle.

Don't get left behind REGISTER by phone, call 626-812-7537 or 1-800-336-2822. To **register online** or for more information on this and other classes, visit [sce.com/workshops](http://sce.com/workshops).

## FREE Help for Small Businesses

### Direct Install is coming to Ventura County!

Qualifying small businesses can save energy & money through the [Direct Install program](#), where trained energy-efficiency contractors help small businesses identify ways to save energy. The Direct Install program will be visiting Ventura County from March 2017 through August in select locations.

An energy-efficiency expert will assess your business on site and recommend improvements that can help your business use less energy. Outdated, inefficient equipment may be replaced FREE with new energy-efficient models and lower energy usage. Find out if your business qualifies to participate.

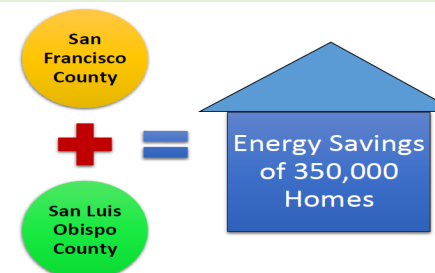
Learn more about Direct Install programs and other SCE solutions to help your business manage energy costs and improve your bottom line, please visit [www.sce.com/directinstall](http://www.sce.com/directinstall), 1(800) 736-4777 or connect with VCREA at [vcrea.admin@ventura.org](mailto:vcrea.admin@ventura.org).

## New Energy-Efficiency Standards

### California's New Computer Energy Standards

There are more than 25 million computer monitors installed in homes and businesses in California using an estimated 5,610 gigawatt-hours of electricity each year. The [California Energy Commission](#) announced its approval of the Nation's first [new energy efficiency standards](#) for computers and monitors with support from industry, environmentalists, consumer groups and utilities. These first mandatory standards in the nation could save consumers an estimated \$373 million annually.

Expected Results of New CA Computer Energy Standards:



The standards will encourage the use of higher efficiency LED backlights and screen technologies. The changes take effect in two tiers beginning in 2019 and establish a standard amount of power a monitor or display can consume when on, and when in sleep or off modes, reducing energy waste when electronics are not in use.

Estimated CA energy savings from the new standards is the same as conserving energy use from nearly 350,000 homes, equivalent to all home in San Francisco and San Luis Obispo Counties.

## Education & Training Resources

Southern California Edison Offers training and workshops at two [Energy Education Centers \(Irwindale and Tulare\)](#), in addition to online webinars. To enroll and for more information visit [www.sce.com/ctac](http://www.sce.com/ctac) or [www.sce.com/workshops](http://www.sce.com/workshops).

SoCalGas Offers Commercial and Industrial, Sustainability and HVAC seminars at the [Energy Resource Center \(Downey\)](#). To enroll and for more information visit [www.socalgas.com/for-your-business/education-and-training](http://www.socalgas.com/for-your-business/education-and-training).

Energy Star Offers a variety of information and tools through the [ENERGY STAR Training Center](#). To enroll and for specific courses and more information visit [esbuildings.webex.com](http://esbuildings.webex.com).

California Energy Commission Offers webinars on current energy efficiency standards and regulations rulemakings. For more information visit [www.energy.ca.gov/efficiency](http://www.energy.ca.gov/efficiency) (click on Notices & Workshops).