

## Hanford Designs Energy Savings Into New School

A new high school in California's San Joaquin Valley expects to save an estimated 15 percent annually in energy costs thanks to use of the statewide Savings By Design (SBD) program with SCE's support.

Sierra Pacific High School, part of the Hanford Joint Union High School District, opened last fall after using SBD to receive design assistance and incentives for high-performance building design and construction. As a result, Sierra Pacific exceeds California's Title 24 minimum energy-efficiency building standards by nearly 20 percent.

### SBD Incentive of More Than \$127,000

The school's calculated savings from SBD total nearly 374,000 kilowatt-hours (kWh) per year and 520 kilowatts (kW) of load reduction. Sierra Pacific received an SBD incentive of more than \$127,000 for its highly efficient 115,000 square-foot facility, with an expected payback for the added investment of less than 11 years. Measures incorporated into the school include:

- A school-wide energy management system to monitor and control overall energy use;
- A central water-cooled chiller plant and condensing hot water boiler for heating;
- High-efficiency lighting systems in most areas;
- Occupancy sensors for classrooms, and a lighting control system to program interior and exterior lighting;
- Skylights and clear story windows to allow in more natural light;
- Wall insulation of R19 and roof insulation of R30;
- Use of variable frequency drives on air handlers and pumps.

"We're on a fixed income," said district Facilities Manager Bruce Pickering, noting state budget challenges. "We have high operating costs and one of the ways we can try to reduce those is through energy management and conservation. This was a perfect opportunity to do it upfront and not look afterward to wish we'd done it differently."

He gave the program high marks and "absolutely recommended" it, noting that it's very effective and "the sky's the limit" – meaning customers can spend more to implement additional energy management measures upfront with long-term payback.

For more information on how you also can benefit from SCE's wide array of energy management programs and services, contact your account representative or visit [www.sce.com/solutions](http://www.sce.com/solutions).

## Small Businesses Help SCE Fulfill Commitment to Cleaner Energy Future

Southern California Edison (SCE) is committed to a cleaner energy future. As the number-one purchaser of renewable energy in the nation and a national leader in energy efficiency, SCE is partnering with customers to bring about a cleaner, smarter, energy future.

In Southern California, it costs more to produce electricity in the summer, when energy demand is at its peak, and less to produce electricity in the winter, during periods of lower demand. To address this reality, SCE recently shifted rates for small business customers with demands of 20 kilowatts or less and who are on the company's GS-1 rate. This shift in rates is not an increase for impacted customers. In fact, customers who take advantage of available programs and manage their energy usage may even experience a decrease in their electric bills.

The rate shift, which was implemented last October, lowers rates during an eight-month "winter" period (October–May) and increases them during a four-month "summer" period (June–September). This rate shift is designed to allow you to pay for electricity when you use it and will promote greater energy awareness and conservation across the Southland.

Customers impacted by the rate shift have seen a 14 percent decrease in rates beginning in October which will continue through May. When the four-month summer period begins in June, these customers will see rates increase approximately 17 percent. These changes are in comparison to September 2009 rates.

SCE recognizes that this change may be difficult for some customers and is available to help them with information about the change and offer solutions to help manage energy bills. Understanding your energy usage is the first step to managing your bill. Learn how your business can benefit from SCE programs by taking our free online energy survey at [www.sce.com/smartbiz](http://www.sce.com/smartbiz).

## West American Rubber Company Stretches Energy Savings With SCE's Auto DR

Keeping expenses under control doesn't just happen: It takes thought, effort, and a few well-placed phone calls and e-mails.

Orange, Calif.-based WARCO joined SCE's Automated Demand Response (Auto DR) program in 2009 as another step forward in its efforts to lower energy costs – one of its major expenses.

Auto DR allows customers with an automated load control system, such as an energy management system (EMS), to participate in SCE demand response programs with no manual intervention, providing flexibility and ease of use. Customers pre-select their level of participation and earn incentives for energy load reductions, which also offer environmental benefits.

WARCO celebrates its 100-year anniversary this year, and "we didn't make it to 100 just by chance," said Partner Ken Hemstreet of West American Rubber Company (WARCO). "We intend to stay in business and we know to do that we have to look everywhere we can to make our business even more efficient and competitive."

Working with SCE and the company's account executive, Paula Muggia, WARCO began with a demand response site assessment through the Technical Assistance and Technology Incentives Program (TA&TI) to identify opportunities to participate in Auto DR.

Company President Jim deLeo said this offered the ability "to better control expenses by identifying each piece of our equipment in terms of energy consumption." He also credited SCE for providing a clear explanation of Auto DR to allow WARCO to make an informed decision.

Next, SCE provided WARCO with an incentive of more than \$245,000 for the installation of an EMS to automatically reduce load from high-consumption equipment. This reflects the up-to-\$300 per kilowatt (kW) SCE pays for verified automated load reduction. Testing showed that the Auto DR system can allow WARCO to reduce load by 899 kW during high-demand periods – when California needs it most.

With its energy management successes to date, WARCO plans to continue its commitment to more efficient use of energy. Hemstreet, noting the passion employees feel for the company, explained, "In this business environment, we all have to keep looking wherever we can to help better position ourselves for the future."

To learn more about Auto DR opportunities, contact your account representative, visit [www.sce.com/autodr](http://www.sce.com/autodr), call (866) 238-3605 or e-mail [ta&ti@sce.com](mailto:ta&ti@sce.com).

## New Infrastructure Will Deliver More Clean, Renewable Energy to the Region

SCE is investing to bring cleaner, renewable energy to Southern California. Our new transmission infrastructure project, when completed, will be capable of delivering enough clean wind and solar energy to serve about 3 million homes in our region.

At a ceremony in May marking completion of the first phase of SCE's Tehachapi Renewable Transmission Project (TRTP), Gov. Arnold Schwarzenegger lauded TRTP as the first major transmission project in California to be constructed specifically for accessing a renewable-rich resource area. Working hand-in-hand with our state's visionaries and with Gov. Arnold Schwarzenegger, we are making California a world leader in renewable energy, green jobs and environmental protection.

Bringing renewable energy from distant wind and solar resources to the cities where we live and work also helps California meet its goals for a clean, green energy future.

The project is another example of SCE leading the way as the nation's biggest purchaser and provider of renewable energy. Last year, about 17 percent of the energy we delivered came from renewables.

Soon, SCE customers will be using even more renewable energy to power homes, businesses and electric vehicles across the region. Our Tehachapi Renewable Transmission Project is designed to help make this possible.

To learn more, visit [www.sce.com/tehachapi](http://www.sce.com/tehachapi).

## Looking Out For Your Meter Reader

Each month, SCE meter readers visit customers' homes to measure electricity consumption and to ensure an accurate reading of electric bills. With your cooperation, our meter readers can complete their jobs quickly and safely. In September 2009, SCE began installing smart electric meters and by the end of 2012, SCE will complete approximately 5 million installations throughout SCE's 50,000 square-mile service territory. Customers with smart meters installed can expect to see less regular visits by SCE meter readers over time.

Regardless of whether you currently have a traditional meter or smart meter installed, here are two tips for helping your meter reader so he or she can go home safely at the end of each work day.

**Keep the area around your electric meter clear** of safety hazards such as debris, toys, hoses, gardening tools, equipment, and overgrown vegetation, as well as bee and wasp nests. Eliminating these hazards can help protect your household members, too.

**Keep dogs confined** and provide safe access to your property on the date of your meter reading (it's listed on the first page of your electric bill). Even if your dog is lovable and friendly, he or she may become defensive or aggressive toward strangers.

If you cannot accommodate our meter reader with safe access on your meter reading date, please call SCE at (800) 655-4555 to make other arrangements. Learn more at [www.sce.com/meterreader](http://www.sce.com/meterreader).

## SCE in Your Community: Announcing the Winners of Edison Challenge Environmental Science Competition

SCE believes that educating our young people is essential to the well-being of our communities. To help ensure that students in the region gain the math and science skills needed to succeed in a competitive job market, we participate in the Edison Challenge, an environmental science competition co-sponsored by Edison International, the parent company of SCE, and the University of Southern California (USC). Edison's support for the program is sponsored by the shareholders of Edison International, and not by SCE customers, and each year, the event brings together dozens of teams of middle school and high school students and teachers.

This year, Santa Monica High School and Medea Creek Middle School are the first-place winners, selected from 67 teams who submitted original science projects related to energy and the environment. Hundreds of students, parents and teachers attended the awards ceremony at the California Science Center in Los Angeles.

Santa Monica High School's team took first place for its Teach and Test program, measuring the bacteria levels at three ocean sites every week for the past year and reporting findings.

Medea Creek Middle School from Oak Park won for its project on "energy vampires" to raise awareness of energy wasted by electrical devices in "off" mode but that are still plugged in.

Second-place winners in the competition were Oak Park High School in Oak Park and Amargosa Creek Middle School in Lancaster. Other finalists receiving honors and awards were three other teams from Oak Park High School in Oak Park, Gabriellino High School in San Gabriel, and Ventura High School in Ventura. Eastshore Elementary School in Irvine, Roosevelt Middle School in Compton, Will Rogers Middle School in Lawndale, Hillview Middle School in Whittier and a second team from Medea Creek Middle School also received awards as finalists in the competition.

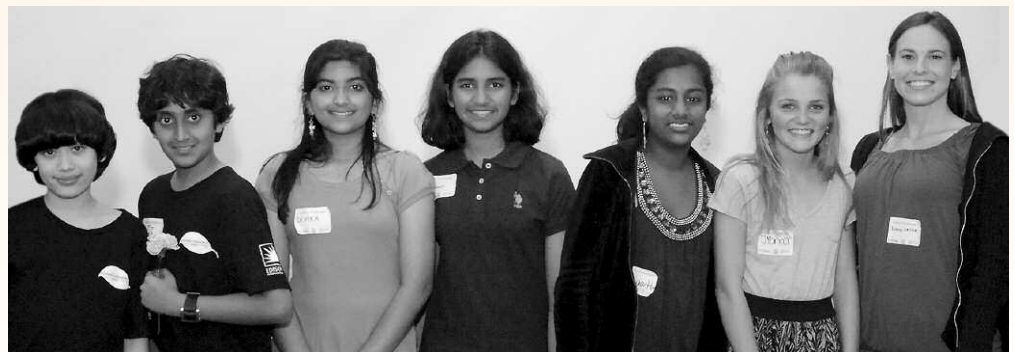
Teachers from the 11 teams selected as finalists were awarded stipends ranging from \$150 to \$500, and each will receive a laptop computer for their classroom. In addition, teachers participating in the Edison Challenge also attended science workshops, which focused on renewables and other energy-related topics.

Edison International partnered with the USC Wrigley Institute for Environmental Studies, housed within USC College of Letters, Arts & Sciences, to create the Edison Challenge in 2006. The company provided \$1 million to fund the program over four years.

For information about the Edison Challenge and this year's participants and projects, visit [www.sce.com/edisonchallenge](http://www.sce.com/edisonchallenge).



**Santa Monica High School** Stuart Hemphill, SCE's senior vice president, Power Procurement; Santa Monica High School students Daniel Franco, Kou Collins, Devany Garcia, Celina Stilphen, Katie Rowbottom and Benjamin Kay (teacher advisor); Howard Gillman, Dean, USC College of Letters, Arts & Sciences.



**Medea Creek Middle School** Medea Creek Middle School students Russell Tagawa, Tujare Jois, Devika Chandramohan, Shruti Aggarwal, Maya Halthore, Jianna Zeola and Sharon Lavene (teacher advisor).