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GOVERNMENT SEGMENT EDITION

SOUTHERN CALIFORNIA EDISON

POWER BULLETIN

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SCE Honors Flex Your Power Award Winners

Southern California Edison (SCE) recently held an event at its Customer Technology Application Center Energy Center to celebrate 20 local business customers' recognition as 2008 Flex Your Power award winners for outstanding results in the areas of energy efficiency and demand response.

Throughout the state, the 2008 Flex Your Power award winners have collectively saved more than \$227 million, 1.5 billion kilowatt hours (kWh) of energy and 122 billion gallons of water, plus have reduced greenhouse gas emissions by 1.3 billion pounds. One of SCE's most applauded winners is the University of California, Irvine, a Best Overall Award winner, which leads the way in energy efficiency with nearly 12 million kWh in savings from 2006 through 2008.

SCE President John Fielder and other top officials thanked customers for reducing strain on the electrical system at peak times, and for helping to ensure reliability in our communities. In addition, they recognized customers' success in energy efficiency and demand response programs as an essential contribution toward management of the state's energy load.

Initiated in 2001, Flex Your Power is a partnership of California's utilities, residents, businesses, government agencies and nonprofit organizations

working to creatively save energy. Visit www.fypower.org/feature/awards/6th/ to see all of the winners. Also contact your account representative and visit www.sce.com to learn how you can save energy and money and improve your bottom line.

SCE Customers: Flex Your Power Award Recipients

Congratulations to the following SCE government and institution customers, all of which received 2008 Flex Your Power awards for saving energy and money:

- The California State University Office of the Chancellor
- The City of Irvine
- The City of South Gate
- The County of Kern
- Irvine Ranch Water District
- Lake Arrowhead Community Services District
- Long Beach Water Department
- The Moorpark School District

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Tips to Save Energy and Money With Electric Transportation Equipment

With the number of electric-powered vehicles on the horizon and non-road equipment in Southern California continuing to grow, SCE is "leading the way" in developing and supporting energy-conserving, cost-effective electric-drive technology solutions for customers. These technologies can benefit customers and our region by lowering greenhouse gas and air pollution emissions, lessening dependence on unstable sources of foreign oil, and offering use of a domestically produced, lower-cost non-petroleum fuel.

Energy Savings for Non-Road Equipment

About 70,000 electric-powered non-road units already operate in SCE's service territory. These include forklifts, golf carts, airport ground support equipment and more, and require about 100 megawatts (MW) of on-peak battery charging.

In recent years, SCE has provided energy-saving solutions for more than 250 manufacturing, warehouse and golf course customers, identifying over 20 MW of load that could be shifted to off-peak hours, with minimal impact to business, based on each company's actual battery charging load profile measurements.

Customers with non-road electric-drive technologies can save by:

- Using time clocks or installing energy management systems (EMS) to delay charging until after 6 p.m. An EMS can also be used to lower costs for plant processes like lighting and HVAC;
- Using the same time clock or EMS to de-energize a charger when it's not in use, since idle chargers can still draw electrical current;
- Checking into new golf carts powered by AC electric motors – and battery chargers that together offer up to 40% better efficiency than today's models;
- Investing in sophisticated battery management systems to minimize power costs while maintaining fresh battery availability; and
- Signing up for one of SCE's Time-of-Use rates for electric-drive technology operators.

Innovations in On-Road Vehicles

SCE's ISO 9001 Registered Electric Vehicle Technical Center is one of only two U.S. test sites recognized by the Department of Energy (DOE) to evaluate electric vehicle baseline performance, vehicle and fleet operation.

Completing a major milestone late last year, the Center demonstrated plug-in hybrid-electric battery cycle-life performance equivalent to more than 180,000 miles in a commercial delivery van simulation with minimal battery deterioration. Based on these results, the DOE has asked SCE to test and evaluate a full-size lithium-ion battery for viability in a passenger car.

As a next step in its electric transportation work, SCE constructed a "garage of the future" test platform to evaluate the benefits of integrating renewable energy sources with mobile and stationary energy storage devices, on-site generation of renewable energy, and the next-generation of smart appliances and meters. SCE will use the test results to enhance the electric grid's quality, reliability and cost-effectiveness through the convergence of electricity and transportation.

To learn more about how you can benefit from SCE's electric transportation programs, contact your account representative or visit www.sce.com/ev/.

GOVERNMENT SEGMENT FOCUS

UC Irvine: Continuing Education for Energy Management Success

The University of California, Irvine, founded in 1965, has blossomed into one of the nation's most respected research universities, earning renown in the health sciences and interdisciplinary research. At the same time, it's earned renown in another area – energy management – with its efforts garnering the university a 2008 Flex Your Power Best Overall Award.

"UC Irvine has long been a leader in higher education," explained Paul Wingco, campus energy manager, and Paul Howland, executive director of maintenance and operations. "As one of the top-ranked universities in the nation, we also strive to be the best in energy efficiency as well as in environmental stewardship."

Wingco added, "We have a cohesive community of faculty, staff and students supporting this effort, and we're collaborating with SCE and with our SCE account manager, Linda Luft, toward achieving some ambitious energy management goals."

UC Irvine Campus Energy Manager Paul Wingco (right), with Executive Director of Maintenance and Operations Paul Howland, said, "We need to stay focused and steadfast with our energy goals, and continue to move forward with energy efficiency on campus so we can continue to drive down costs and also make a difference in the environment. Our collaboration with SCE will help us make it a reality."



Ongoing Steps to Measurable Savings

UC Irvine's nearly 1,500-acre campus undergoes continual improvement to accommodate its ever-changing research programs and extensive plans for growth over the next two decades.

Howland noted, "We're always looking for better ideas, and SCE is an essential partner. We take advantage of all the energy management programs we can."

UC Irvine's successes to date in working with SCE demonstrate the point.

Through SCE's Standard Performance Contract Program, which provides financial incentives to offset the capital costs of installing high-efficiency equipment or systems, UC Irvine saved more than 3.4 million kilowatt-hours (kWh) in a single year. Projects completed under the program include:

- Replacing outmoded lighting with more efficient T5, T8 and compact fluorescent lighting;
- Upgrading traffic signals with energy-efficient LED lamps;
- Putting in occupancy sensors to turn off lights when classrooms or lecture halls are not in use;
- Installing window film to reduce radiant heat gain in buildings; and
- Optimizing air conditioning and heating systems by installing variable speed drives on pump and fan motors.

But that's not all. Under the University of California/California State University/Investor-Owned Utility Energy Efficiency Partnership, from 2006 through 2008 UC Irvine saved nearly 12 million kWh and more than 1,000 kW with projects like HVAC upgrades and controls, additional lighting retrofits and controls, fume hood retrofits, monitor base commissioning and PC management.

Plus, the university, which also saves nearly 4 million gallons of water annually through its efficiency initiatives, installed a cogeneration plant on campus. In addition to saving energy, this plant enhances reliability for on-site energy-intensive labs, and reduces demand on the electrical grid during high-peak periods.

Evolving Needs, Improving Designs

"Our campus environment is dynamic, so buildings are constantly evolving to reflect and support these changes," said Wingco. "We also collaborate with SCE through its Savings By Design Program in designing new facilities and in adapting older ones. Our lab buildings can be heavy electricity users, so we need to plan every possible efficiency as early in the process as we can."

Howland concurred. "We're committed to energy efficiency exceeding the standards in California's Title 24 by 20%," he said. "Savings By Design means that we maintain high energy-saving standards even while a building program evolves."

Focused and Steadfast With Energy Goals

Beyond all of its successes to date, UC Irvine continues to work toward determined energy management goals set by the University of California system: procuring 20% of its electricity needs from renewable sources by 2017, and using energy efficiency retrofit projects to reduce system-wide growth by 10% by 2014 from a year 2000 base.

"Those are aggressive targets," Wingco said, "but the UC Irvine community is committed to sustainability. We need to stay focused and steadfast with our energy goals, and continue to move forward with energy efficiency on campus so we can continue to drive down costs and also make a difference in the environment. Our collaboration with SCE will help us make it a reality."

For more information about SCE's energy management programs, contact your account representative or visit www.sce.com.