



SOUTHERN CALIFORNIA
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IN THIS ISSUE ...

- » Make Your Resolutions for an Energy-Efficient 2011
- » Put Your Energy Into Holiday Savings
- » SCE Submits 2012 General Rate Case Application
- » Energy Solutions Help B. Braun Achieve Healthy Savings

SOUTHERN CALIFORNIA EDISON

POWER BULLETIN

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INDUSTRIAL SEGMENT

Make Your Resolutions for an Energy-Efficient 2011

As you look ahead to the New Year, follow these tips from Southern California Edison (SCE) to save energy, money and the environment—and to make 2011 your most energy-efficient year yet.

Add more cash to your stash: Earn rebates and incentives from SCE for replacing less-efficient equipment and for upgrading to or installing high-efficiency equipment and systems. Check out www.sce.com/solutions to learn more.

Find out what the survey says: Take the online business energy survey available at www.sce.com/_Tools/Business/online-energy-guide.htm. You can quickly identify energy-saving opportunities, plus get detailed recommendations and project assistance specifically for your business.

Power up your bottom line: Join an SCE Demand Response program for the opportunity to receive financial incentives or other benefits for reducing or shifting power use during peak-demand times. Visit www.sce.com/drp to learn how you can save money and assist the community by helping ensure adequate electricity supplies.

Automate your savings: Gain flexibility and ease of use by participating in selected Demand Response programs with no manual intervention through Automated Demand Response (Auto-DR). Log onto www.sce.com/autodr for details, including information on technology incentives available to help offset the purchase and installation of Auto-DR system equipment.

Put energy management at your fingertips: Use SCE EnergyManager[®] Basic, a web-based program that provides basic energy information and analytical tools to help you effectively manage your energy usage. Take it one step further with SCE Cost Manager[®] and SCE Bill Manager[®] for access to powerful cost estimation tools and the ability to review and track your bills online. For details, log onto www.sce.com/energymanager.

Make school cool: Sign up for classes offered on a variety of energy management topics—from lighting and HVAC, to motors and refrigeration, and more—at SCE's Energy Centers in Irwindale and Tulare. See the schedule and register at www.sce.com/energycenters.

Follow the sun: Receive financial incentives, reduce annual operating costs and help the environment by generating your own clean, renewable energy from solar panels when you take advantage of the California Solar Initiative. Learn more at www.sce.com/gosolar.

To find out about all of SCE's energy management programs and services, and how SCE can provide solutions tailored to meet your energy needs, contact your account representative today.

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Put Your Energy Into Holiday Savings

Here are some simple tips to help you celebrate the holiday season more efficiently and safely:

Efficiency Tips:

- Select more efficient LED (light-emitting diode) or miniature lights, or use lower-watt bulbs as replacements for your holiday decorations.
- Set holiday lights on a timer so they do not stay on longer than needed.
- Replace standard lighting with compact fluorescent lamps, halogen lamps and high-intensity discharge lights (HIDs) for year-round savings.

Safety Tips:

- Only use UL (Underwriters Laboratories Inc.)-approved lighting and cords.
- Do not insert nails or tacks through any electrical cords, and replace damaged, brittle or frayed cords.
- Keep electrical connectors off the ground and away from moisture.
- Never use lighted candles on trees or decorations.
- Keep holiday lights away from carpeting, furniture, drapes or other combustible materials.

For more information on energy efficiency and safety, visit www.sce.com.

SCE Submits 2012 General Rate Case Application

Last month, SCE submitted to the California Public Utilities Commission (CPUC) its 2012 General Rate Case (GRC) application. In a GRC proceeding, SCE proposes a three-year plan that outlines the infrastructure and related spending needed to maintain the reliability and security of the region's power delivery grid. The request is fully transparent and rigorously reviewed by the CPUC before adjusting customer rates.

If approved, the 2012 to 2014 infrastructure plan to increase investment in Southern California's electricity grid would result in an overall increase of 7.55% above current rate levels. This SCE request would support thousands of additional jobs per year in the communities SCE serves. The 2012 GRC will likely conclude in late 2011 with a decision by the CPUC that would be implemented in customer rates on Jan. 1, 2012.

For more information about SCE's General Rate Case, visit www.sce.com/grc.

INDUSTRIAL SEGMENT FOCUS

Energy Solutions Help B. Braun Achieve Healthy Savings

A leading manufacturer of infusion therapy and pain management products, B. Braun also pursues energy management solutions in partnership with SCE to save energy, money and the environment.

At its 530,000-square-foot facility in Irvine, Calif., B. Braun this year completed installation of a new Water for Injection (WFI) system to manufacture purified water for the IV solutions produced on-site. The new higher-output, more efficient three-unit system replaced the previous seven-unit system, with variable frequency drives to respond to demand and programmable logic controllers to run optimized algorithms.

The estimated annual electricity savings for the project totaled nearly 3.3 million kilowatt-hours, with a very significant monetary incentive from SCE.

Creating "Leaner" Operations

"One of the big moves to change our culture involves 'lean initiatives.' As the company follows this approach, we're always looking at ways to save operating expenses throughout the whole facility," said Ron Danfield, manager of plant systems for B. Braun Medical Inc. "We have plans for major projects that will consume more electricity. We're trying to balance that out by reducing the power consumption of existing operations."

Early in 2010, B. Braun formalized its lean initiatives approach by forming teams on topics such as energy reduction and environmental issues. Danfield, together with Facilities Electrical Engineer Nima Bayan and Critical Systems Supervisor Bob Panza, are members of the company's Energy Reduction Team.

Bayan, the team leader, said the team "demonstrates B. Braun's commitment to energy and utilities consumption reduction" and works "like a think tank" in coming up with ideas for energy savings.



The estimated annual electricity savings for B. Braun's new Water for Injection (WFI) system (to manufacture purified water for IV solutions) total nearly 3.3 million kilowatt-hours. Shown on-site are (left to right) company officials Nima Bayan, Ron Danfield and Bob Panza.

The Energy Reduction Team's efforts expand on previously implemented initiatives and major efficiency projects completed by B. Braun, including:

- Relamping warehouses with T8 lamps and motion sensors;
- Installing centrifugal air compressors to replace rotary screws, with a resulting 15% demand reduction;
- Installing a new high-efficiency chiller; and
- Replacing hydraulic actuated injection molders with servo-driven machines that lessen energy use.

"We are dedicated to providing high-quality, cost-effective infusion therapy products that help our customers maximize resource efficiencies, including environmental impact and financial savings. This commitment is reflected through our internal efforts to successfully reduce power consumption, as we ultimately pass the savings to the customer level," added Danfield.

Putting Demand Response to Work

Beyond implementing extensive energy efficiency projects, B. Braun's Irvine facility participates in the Time-of-Use Base Interruptible Program (TOU-BIP), which provides a monthly credit for committing to reduce load to a pre-determined level during state-initiated interruption events. In its last TOU-BIP event, B. Braun reduced 1.2 megawatts of load.

"It's a teamwork effort among business units to manage power consumption during these events," Danfield said. "We have achieved the benefit of that program and we see that on our monthly bill, especially in the demand charges."

Danfield added that B. Braun uses a Supervisory Control and Data Acquisition (SCADA) system to watch its processes and determine additional opportunities for savings. When the platform gets to its "maturity," the company would be in a position to pursue further energy cost reduction ideas such as Automated Demand Response (Auto-DR). This enables customers with automated load systems, such as energy management systems, to participate in Demand Response events without manual intervention, providing flexibility and ease of use. SCE provides incentives of up to \$300 per kilowatt of tested load reduction for system upgrades and technologies that allow Auto-DR.

As B. Braun looks ahead to "further managing demand intelligently," Danfield credits the company's SCE account executive for helping B. Braun save energy and money.

"Tina Valore has been a huge asset to us and our ability to be successful with these projects," he said. "She's been able to bring in the experts we need so we can get incentives in place."

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 and www.sce.com/drp.