



Energy Management Success Story



Energy Management at the University of California, Santa Barbara: At the Top of the Learning Curve

“We try to manage our energy wisely for the right reasons,” says Jim Dewey, Energy Manager at the University of California, Santa Barbara. “We have a beautiful campus environment and everyone in the UCSB community is motivated to take care of it. But there’s a bottom line. Above all, energy management is a financial issue for us. We’re here to support the university’s academic and research functions, not to compete with them for dollars. The more electricity we conserve, the more money we save, and the more supportive we can be of the school’s mission.”

Jim’s department delivers consistent support by using every possible incentive and savings program offered by Southern California Edison (SCE) to trim costs and improve energy efficiency. UCSB installed occupancy sensors in 450 restrooms; retrofitted traffic signals with energy-saving light-emitting diodes (LEDs); replaced T-12 fluorescent lighting tubes with the more efficient T-8 fixtures, saving about 40% on lighting costs every month; participated in SCE’s Standard Performance Contract; and took part in the UC/CSU/IOU Energy Efficiency Partnership Program to commission lab and

classroom buildings. The payback? Over a half-million dollars in energy savings in a single year, with more to come.

Campus-Wide Commitment Pays Off

“Welcome to UCSB Energy,” Jim Dewey’s departmental Web site, gives updated feedback to everyone on campus about their collective energy-management performance. “Our staff, faculty, and students are very actively engaged in this effort,” he says. “Our resident students compete with one another by dormitory, and they measure their conservation. The student body created a fund to subsidize renewable energy programs, and they give out compact fluorescent bulbs. With SCE’s help, we’re keeping costs down for the whole university. That’s why everyone here is so supportive of energy management.”

The challenge to do more with less has grown as the campus has evolved into a prestigious research and science center. “In recent years we’ve built laboratories and clean rooms with high energy requirements, and with standards that can’t be compromised,” Jim explains. “And we’ve shown that managing energy and upholding our

Savings by Managing Energy:

- More than 2.1 million kWh savings (and over \$220,000 in incentives) for installing variable speed drives, chillers and indoor fluorescent lighting under SCE’s Standard Performance Contract
- **Combined annual savings of more than 2.3 million kWh** through a retrofit of chiller optimization controls, LED traffic signals and room occupancy lighting controls, and commissioning of the campus central plant chilled water system, under the UC/CSU/IOU Energy Efficiency Partnership Program

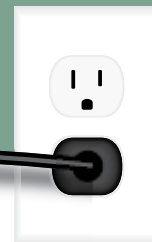


Jim Dewey, Energy Manager,
University of California,
Santa Barbara



"We've shown that managing energy and upholding our academic excellence can be complementary goals."

Jim Dewey, Energy Manager, University of California, Santa Barbara



academic excellence can be complementary goals. Our energy managers, project managers and researchers collaborate in the design stage with SCE and the Savings by Design Program to build efficiencies into facilities on the drawing board. Together we pursue every possible opportunity for savings."

Managing Efficiently for Energy Savings

"Energy-management technology is constantly improving," Jim says, "so our campus is a lab for the kind of upgrades and reinvestments we make with SCE. Monitoring tools such as SCE Bill Manager[®] and SCE Cost Manager[®] help us measure and diagnose our usage in real time. SCE's Demand Bidding Program is an easy and flexible demand response tool. And our Account Manager is a great resource for new ideas and program information. She actually gets calls directly from the students all the time about energy management."

What's left to do on a campus that has already achieved such energy savings? "Our ongoing collaboration with SCE will further reduce our impact on the environment in greenhouse gases," Dewey says. "We're on track to meet our 2010 goal even with our projected growth, and our plans are in place to

meet the 2020 state target. SCE is right there with us; SCE plans to increase its renewable portfolio enough to get us to our goal of using more electricity from renewable sources. Energy management here is part of the educational process here, and SCE is a great partner. We're proud that our students will carry the conservation lessons they learn here out into the world."

Like UCSB, you can save money on electricity:

- **Use SCE's Express Efficiency Program** or other energy efficiency programs for cash incentives on energy-saving hardware and equipment.
- **Find out how Standard Performance Contract (SPC)** can deliver cash incentives for installing high efficiency equipment or systems.
- **Use SCE's Savings By Design (SBD) Program** for project assistance and financial incentives for the design and construction of energy-efficient buildings and installation of high-efficiency building systems.
- **Find out how SCE Demand Response Programs** can reward you for reducing your electricity usage at www.sce.com/drp.

For More Information

Southern California Edison offers a range of programs such as cash incentives, energy surveys, and payment options to help you better manage your electricity costs. To learn more, please contact your SCE account representative, call (800) 990-7788, or visit us at www.sce.com.

Learn more about how to save energy and save money:

Express Efficiency

www.sce.com/express
800-736-4777

Standard Performance Contract

www.sce.com/spc
800-736-4777

Savings By Design

www.savingsbydesign.com
www.energydesignresources.com
800-338-8502

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