



THEY DESERVE THEIR NAMES UP IN LIGHTS.
(ENERGY-EFFICIENT COMPACT FLUORESCENT LIGHTS.)



As a state, we saved more than 4 billion kilowatt-hours (kWh) this year — enough to power more than 660,000 homes in your community. Below are just a few examples of innovative and successful energy efficiency measures taken by Californian businesses, governments, and schools. These stories prove that investments in energy efficiency not only save energy, but also lower operating costs, increase property value of homes and businesses, and help create local jobs — all the while helping the environment.

California Portland Cement (CPC) cut annual electricity consumption by 10% — roughly 31 million kWh — saving nearly \$3 million each year. Savings stem from a host of process improvements and equipment upgrades, including installation of a grinding mill that uses water and compressed air far more efficiently than standard models. CPC also partnered with the Environmental Protection Agency to develop an energy benchmarking program for other cement plants.

California State University (CSU) at Long Beach saved 1.6 million kWh. The school replaced 112 fluorescent lights with high-efficiency T8s and T5s and installed electronic ballasts, which use 12% less energy than magnetic ballasts. In 2004, the CSU system saved nearly 11.3 million kWh and 279,000 therms of natural gas throughout its 23 campuses. By 2010, the CSU system aims to reduce energy consumption 15%.

The City of Redondo Beach reduced energy use by 21% and energy costs by \$1.2 million annually. In 2000, the city committed to reduce its energy costs 20% and began a comprehensive energy program. Improvements to city facilities include T8 lights, window film, and solar tubes that capture and direct natural light. Redondo Beach also installed light-emitting diode (LED) traffic signals, power regulators on streetlights, and solar irrigation timers to reduce energy and water use.

Lockheed Martin is on track to save 10.9 million kWh and \$1.6 million in energy costs at six Southern California locations this year. The company trimmed energy use by modifying chillers, installing energy-efficient lights coupled with occupancy sensors, using energy management systems for HVAC and lights, and encouraging employees to conserve. Lockheed also participated in demand response programs. When energy demand was high, it cut 20,000 kW by reducing lighting and equipment use when practical.

Huntington Memorial Hospital has saved more than \$187,000 and 1.3 million kWh in 2005. The hospital has upgraded and modified its ventilation system — including adding new air handling units and variable speed drives on fan motors, repairing economizers (which take advantage of “free” cooling), and adjusting operating schedules. In some instances, the hospital was able to pare operating hours of its ventilation system 50%. The changes also reduced peak-energy demand by 52 kW.

Los Angeles World Airports (LAWA) cut energy use by up to 30%. Los Angeles International Airport (LAX) reduced heating, ventilating, and air conditioning (HVAC) energy use 30-40% by installing variable frequency drives. It also cut lighting use 60% by retrofitting warehouse lights, and reduced energy use 20% per elevator by installing new controls. The Van Nuys Airport, through lighting retrofits alone, saved over \$140,000.

Gienborough Realty Trust's First Financial Plaza will save 608,000 kWh and \$65,000 in 2005. The 223,000-sq.-ft. building has been renovated with a new chiller, an energy management system, efficient lights, and variable speed drives for HVAC equipment. The company also reduced the operating schedules of lighting and equipment by 4,000 hours per year per floor. It plans to upgrade 19 additional facilities — saving an estimated 3.2 million kWh and \$430,000 annually.

Warner Bros. Studios saved over 8 million kWh — a 14% reduction — and more than \$1 million annually. Energy efficiency improvements initiated after a campus-wide energy audit included: T8, compact fluorescent, and high-bay T5 lights; variable frequency drives on fan motors; programmable thermostats; and energy-efficient boilers and water heaters. Studio tours for 72,000 annual visitors include information about the improvements. An “Eco-Ambassador” program helps employees monitor their energy use.

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