



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 Public Employees' Retirement System (CalPERS) has committed to reducing energy use 20% at its property holdings — affecting about 117 million sq. ft. of office and industrial space worth \$7.3 billion — within five years. CalPERS, one of the nation's largest pension funds, also uses its market power to promote energy efficiency. The company has earmarked \$200 million for investment in environmental technologies, with another \$500 million committed to environmentally responsible stock portfolios.

Jazz Semiconductor's already efficient facility will reduce energy use an additional 6.3% this year. Jazz optimized HVAC, production, and water and air treatment equipment. Jazz also uses first-of-its-kind technology, such as a hot, deionized water system and real-time, demand-based filtration control in clean rooms. The company, in addition to reducing water consumption, expects to save \$1 million in utility bills, 11 million kWh, and 1.2 million Btu.

Irvine Valley College saves approximately \$210,000 and 1.8 million kWh annually as a result of its efficiency project. Completed in 2005, the project featured \$5.4 million of efficiency upgrades including new HVAC equipment, energy management controls, and T8 lights. Additionally, one building now only uses natural light. The upgrades helped the college slash its peak demand by more than 500 kW.

Johnson Controls, Inc. saves an estimated 2.5 million kWh annually — 11% of the company's 2003 consumption. Upgrades have included efficient lighting, occupancy sensors, and energy management controls on process equipment. The controls alone shaved four hours from the daily operating schedules of 19 motors. Johnson Controls is also developing a demand-reduction system capable of automatically reducing power levels when the plant exceeds specified peak-electricity thresholds.

Calvary Church reduced energy consumption almost 15%. The organization's 175,000-sq.-ft. facility was upgraded to include T8 fluorescent lights; 100 light-emitting diode (LED) exit signs; and a new heating, ventilating, and air conditioning (HVAC) control system. The changes, which will save nearly 150,000 kWh annually, evolved from a partnership between the church and its utility. When energy demand is high, the staff adjusts thermostat settings and shuts off unnecessary lights.

Edwards Lifesciences saves 3 million kWh and more than \$1 million annually, thanks to recent efficiency improvements. The company upgraded its HVAC and energy management systems and installed highly efficient T5 lights, reducing energy use by 16%. The new T5s also brighten rooms and reduce cooling loads. Impressively, the savings came even though Edwards increased production hours (+75%), employees (+17%), and floor space (+6%).

Metropolitan Water District of Southern California (MWD) reduced electricity use by 43% and cut \$550,000 in costs at one of its large pumping facilities. By modifying piping and four existing large pumps, MWD saved close to 6 million kWh. MWD expects to receive almost \$500,000 in incentives from its utility for the project, which included installing three additional pumps, variable speed drives, and new valves.

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: installing 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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