

# HERE'S TO THE CALIFORNIANS WHO RECOGNIZE THAT PROTECTING THE ENVIRONMENT DOESN'T COME AT A COST, BUT A SAVINGS.



As a state, we saved an estimated 4 billion kilowatt-hours (kWh) this year — enough to power more than 650,000 homes in your community. The following are just a few organizations that have played an important role in helping us all use less energy. They designed the tools and technologies that make our everyday appliances, equipment and operations more efficient, produce fewer emissions and allow for more reliable power. What's more, their innovations let the rest of us spend our money where it counts — toward resources for our schools, our families and our businesses — rather than on energy bills. We thank them for making it easier to make saving energy a way of life!

**Dameron Hospital is developing a new central plant (which provides heating and cooling) and has already saved 600,000 kWh**, with more savings to come. As a first step, Dameron installed a high-efficiency chiller, which, alone, saves \$60,000 per year in utility costs. Future construction projects will include energy-efficient boilers that can be staged to optimize provision of hot water, heating and steam. Presently, Dameron also invests in energy-efficient lighting, lighting controls and light-emitting diode (LED) signage.

**Winesecrets introduces energy-saving technologies for California's wineries.** Its Selective Tartrate Removal System (STARS) eliminates the need for refrigeration and reheating during tartrate removal, resulting in a 95% electricity reduction for this process. With support from utilities and the California Energy Commission, Winesecrets is demonstrating STARS to the wine industry. If adopted by all California wineries, STARS could save 24 million kWh each year. Winesecrets also has developed low-energy processes that reduce wine pH levels.

**P-R Farms saved 180,000 kWh and more than \$200,000 by replacing lighting and optimizing refrigeration and process equipment** at its Clovis plant. P-R Farms replaced metal-halide lights with efficient T8 fluorescent lights, installed variable speed drives to refrigeration and fruit-handling equipment, installed an energy management system to monitor temperature in each cold storage area and doubled condenser capacity to lower compressor head pressure. P-R Farms also utilizes a rooftop 1,000-kW photovoltaic system.

**The City of Turlock will save almost 700,000 kWh and \$30,000 annually** thanks to a traffic-light retrofit. The city replaced all 2,268 incandescent traffic signal lights with LED signals. In addition to electricity cost savings, the city will benefit from lower maintenance costs since LED lights typically outlast incandescent lights by a number of years.

**Grimmway Farms reduced annual energy consumption 15% and trimmed peak demand by 500 kW** by targeting, with the help of its utility, the main energy consumer at its four Bakersfield facilities: refrigeration. Grimmway installed new refrigeration systems, complete with insulation, high-efficiency motors and advanced temperature controls. Employees were informed of the energy-saving benefits, including savings of more than \$300,000 and 3.4 million kWh annually.

**Field Diagnostic Services, Inc. developed an automated fault detection and diagnostic system (AFDD) for heating, ventilating and air conditioning (HVAC) equipment.** The AFDD can reduce annual electricity bills by \$400 - \$1,000 at sites with several 5-10 ton units. Developed with Purdue University, the wireless embedded monitoring system automatically notifies commercial building owners and managers when HVAC maintenance is needed or problems arise. The system has a projected payback of less than 24 months.

**Davis Energy Group (DEG) developed two air-conditioning technologies designed to save energy and trim utility bills.** "NightBreeze" combines conventional heating/cooling equipment with advanced predictive controls to automatically ventilate homes at night. Testing showed that cooling costs dropped as much as 65% and that compressor-based cooling was eliminated in some climates. "OASys" uses a novel heat exchanger to cool air with far less humidity than conventional evaporative coolers, saving 90% of total energy use and 80% of peak demand.

**National Diversified Sales (NDS) reduced electricity use by 2 million kWh annually** through the installation of variable speed drives on older injection molding machines. This year, NDS added variable speed drives to six more injection molding machines, saving an additional 682,000 kWh, while reducing cooling needs of each machine. NDS, a manufacturer of commercial, landscape and irrigation drainage products, also participated in demand response programs.

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