

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



This year, California businesses, local governments, and schools invested in energy efficiency to reduce their ongoing electricity use. They reduced electricity use even further by cutting their demand during peak hours when energy supplies were tight. Cutting electricity use during peak hours — the time of day when energy use is highest — helps ensure reliable, affordable power for everyone. In total, Californians committed to reduce their electricity demand by more than 2 million kW — the equivalent of the capacity of two nuclear power plants. Additionally, roughly 800,000 Californian residents and small businesses lowered their total summer electricity use 20% or more — compared to last summer's usage. Below are just a few outstanding examples of how businesses, governments, and schools in your area took simple actions to help make electricity reliable for everyone.



Community Medical Centers in Fresno participates in demand response programs to conserve peak energy. Community also saves 4.4 million kWh and \$500,000 annually through energy efficiency. Managers met weekly and worked with their utility to discuss and implement energy saving opportunities. To date, Community has installed a thermal energy storage system; retrofitted and optimized its heating, ventilating, and air conditioning (HVAC) system; retrofitted lights; installed shade structures and double-paned windows with glazing; delampd unnecessary lights; and repaired air and water leaks.

El Dorado Irrigation District (EID) saved 15% on its electric bills by adjusting pumping schedules. This past summer, during off-peak hours, EID shifted more than 2,000 kW at a water treatment plant and water pump station. EID was invited to present its successful model to other water agencies and will build a new water transmission line to further increase off-peak pumping abilities.

Farmdale Creamery participated in a demand response program and cut an estimated 268 kW when called upon — the equivalent of 32% of the company's total peak demand. When supplies are tight, Farmdale Creamery delays processing dairy products until off-peak hours. The dairy processing plant in San Bernardino also receives electricity bill discounts for participating in its utility's interruptible program.

Costco Wholesale ties management bonuses to each store's energy costs. Managers use energy management systems (EMS) to minimize costs and maximize profits. For example, managers use the EMS to adjust artificial lighting to the lowest levels needed based on the amount of natural light from skylights. Costco in City of Industry shaved 150 kW and \$50,000 annually after installing a thermal energy storage system, which produced ice during off-peak hours for daytime air conditioning.

P&O Cold Logistics trimmed peak load by up to 1,000 kW at its refrigeration warehouses by participating in demand response programs. Prior to peak hours, P&O Cold Logistics lowered the temperature in its refrigeration warehouse so that it could completely turn off the cooling system during peak hours without harming its product. With help from its utility, P&O Cold Logistics also has installed energy-efficient lighting, insulated doors, refrigeration controls, and variable speed drives. These efficiency measures will save an estimated \$250,000 and 2.5 million kWh annually.

Porterville Citrus saved \$50,000 in utility costs by upgrading its 145,000-sq.-ft. cold storage facility in Terra Bella. Sequencers were added to the refrigeration system, reducing peak demand by 100 kW and electricity use by 215,000 kWh. More retrofits are under way — including installation of a variable speed drive air compressor system and a cool roof. When completed, the upgrades will eliminate an additional 20 kW of energy demand and reduce equipment run times.

Tulare County has saved taxpayers \$709,000 annually with energy-efficient building management. The county retrofitted 66 buildings with new lighting and installed HVAC systems and building controls, which operate equipment based on actual occupancy. Energy management cut almost 4.9 million kWh of electricity — a 23% reduction — and reduced peak power demand by 1,127 kW.

Limoneira Company trimmed 33% from its peak-energy demand. The agricultural producer, packer, and shipper adjusted summer operating schedules — moving its early shift to 5 a.m. and the washing and storing processes to off-peak hours — so that far less electricity was used during peak hours. Limoneira also installed energy-efficient refrigeration doors, HVAC equipment, and T8 fluorescent lights with motion sensors, which increased light levels by 50%, yet cut costs by 50%.

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