

Business Energy Guide



Helpful Tips for Saving Energy and Money

As a business owner or manager, if you had the opportunity to lower your operating cost, wouldn't you take it? Here's your chance. It's as simple as investing in energy-efficiency improvements and following some of the tips in this energy guide.

Why not start with SCE's **Business Incentives & Services**? It's a new approach of offering business customers an easier way to save.

Take a free **Online Business Energy Survey** at www.sce.com. You'll receive a customized report that will guide you to saving energy and money. Then participate in one of our unique incentive options, **Express Efficiency** or **Standard Performance Contract** to receive cash rebates and incentives for the purchase and installation of energy-efficient equipment.

Lighting

- Replace incandescent lights with compact fluorescent lamps (CFLs)
- Replace T12 fluorescent lamps and magnetic ballasts with T8 or T5 tubes and electronic ballasts
- Replace warehouse and other high-bay lighting with High Intensity Discharge (HID) lamps or high-bay fluorescent fixtures
- Install occupancy sensors in general usage areas so that lights turn on only when the area is occupied and automatically turn off when the area is not
- Clean lamps, reflectors, and diffusers regularly to maintain maximum illumination levels
- Replace incandescent exits signs with Light-Emitting Diode (LED) exit signs
- Install photocells or timeclocks on outdoor lighting systems so they only operate from dusk to dawn



- Perform regular maintenance on filters, belts, coils and bearings
- Verify that thermostat controls prevent heating and cooling simultaneously
- Consider installing high efficiency units when replacing old HVAC systems

Refrigeration

- Shelf products properly to avoid airflow blockage or voids
- Install insulation on bare or poorly insulated suction lines
- Perform regular maintenance on coils, motors, evaporator and condenser belts
- Replace T12 magnetic ballast lighting in display cases with T8 electronic ballast, LED, fiber optic, or cold cathode lighting
- Check for misaligned frames and hardware, and replace worn door gaskets on walk-ins and reach-ins
- Install strip curtains or swing-doors in doorways of walk-ins
- Install auto door closers on walk-in doors
- Install night covers on open display cases



Heating Ventilation and Air Conditioning (HVAC)

- Set and lock your thermostats to the maximum acceptable set point
- Install timers or set programmable thermostats to shut down during non-business hours
- Cool/heat occupied rooms only



Commercial Cooking

- Perform regular maintenance; clean and polish heat reflectors, clean and check burners regularly and recalibrate fryer and griddle thermostats
- Install energy-efficient equipment such as ENERGY STAR® labeled appliances
- Cut appliance idle time by implementing a daily startup/shutdown plan, staggering equipment startup times to avoid peak demand
- Preheat ovens, griddles, and broilers only when necessary
- Reduce temperature on fryers and griddles during idle times
- Place cooking appliances well within exhaust hoods, which are most effective if they overhang the equipment by more than 6 inches
- Consider exhaust hood controls for significant energy savings during down times



Motor Loads

- Operate air compressor at the lowest pressure allowed by your system and repair all leaks
- Practice preventive maintenance on motor systems
- Replace standard motors with premium-efficiency units
- Install variable-frequency drives to control the motor speed
- Install automatic shut-off devices to reduce peak demand
- Install devices that improve power factor

Water Heating

- Adjust your water temperature to 100-110 degrees unless a higher temperature is required for health or legal reasons
- Install an insulation blanket on your water heater

- Insulate hot-water piping
- Perform regular maintenance on your water heater, repair all leaks, remove scale from heat exchanger surfaces
- Install water flow restrictors on faucets and spigots
- Install timers on circulation pumps to avoid operating continuously or when hot water is not needed

Building Envelope

- Wherever possible, increase insulation level in walls and ceilings
- Inspect weather stripping around windows and doors to make sure there is no deterioration or gaps which allow air movement
- Install window film or new energy-efficient windows to reduce the solar heat gain in the summer
- Add interior or exterior window blinds or shades to block direct sun during the summer but allow daylight to enter during the winter
- Design your landscaping to shade building exterior from the summer sun
- Have a professionally-certified building energy service conduct an infrared thermal imaging survey of your building to identify areas with deficient or missing insulation

If you'd like more information about how you can improve the energy efficiency of your business, contact:

- Southern California Edison
1-800-736-4777
www.sce.com
- EnergyStar®
1-888-STAR-YES
www.energystar.gov

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