



**Energy Efficiency** is the use of less energy to perform the same task. Improving energy efficiency in your home can reduce your overall energy consumption, helping you conserve energy and lower your energy costs. Understanding energy efficiency and implementing energy efficiency practices in your home can help your solar photovoltaic (PV) system provide greater savings to your energy bills.

## Simple Ways to be More Energy Efficient



**Purchase ENERGY STAR Certified appliances and fixtures:** ENERGY STAR® Certified Appliances like washers, dryers, water heaters, and refrigerators meet strict energy-efficiency specifications set by the U.S. Environmental Protection Agency (EPA), helping you save energy and money while protecting our climate. Look for the ENERGY STAR label when shopping.



**Replace light bulbs in your home with ENERGY STAR Certified light emitting diode (LED) bulbs:** LEDs use 70-90% less energy than traditional incandescent bulbs and last over 15 times longer. Be sure to check the lighting facts label to find the brightness, color temperature, and dimmable and smart capabilities you need.

### ***Did you know?***

*You can save up to \$40 every year by replacing your home's five most frequently used bulbs or light fixtures with ones that have earned the ENERGY STAR. ENERGY STAR certified ceiling fans with lights are 60% more efficient than standard models and can save you \$180 in energy costs over the fan's lifetime.*

## Simple Ways to be More Energy Efficient (continued)



**Take advantage of natural sunlight:** Open your blinds or curtains to light and heat your rooms in lieu of relying on artificial light and furnaces during cooler months. Save on cooling costs during warmer months by closing your blinds and windows in the morning and keeping your windows open at night for natural cooling.



**Power down.** Turn off devices or office equipment that are not in use. Turning off one computer and monitor nightly and on weekends can save up to \$80 a year. Use power strips or unplug electronics that draw power even when switched off.



**Save on air conditioning (AC) costs in the summer:** Changing the AC thermostat from 72 to 78 degrees can save up to 12% of your cooling costs. Save even more by getting an ENERGY STAR Certified programmable thermostat and making sure to change your air filter regularly.



**Save on heating costs in the winter:** Turn your thermostat down to 7° - 10° for 8 hours a day, like when you sleep, and you can save up to 10% on your bill. We also suggest you wear warm socks and pajamas at night.



**Save even more on heating and cooling costs by sealing and insulating.**

Sealing air leaks and adding insulation can help your home be more energy efficient and provide up to 10% savings on your annual energy bills.

## How Can Solar PV Systems Help Support Home Energy Use?

Solar PV systems convert sunlight into energy that can be used to power your home and lower your monthly energy bill. The more you lower your initial energy use due to energy efficiency measures, the more your overall energy consumption can be covered by the power produced by solar panels.

## Start Saving Today!



Learn all the ways you can save energy at home by creating a free My ENERGY STAR account at <https://www.energystar.gov/campaign/home>. You can use their tools to create a home assessment and customized action list to start saving today!



Interested in making energy efficiency upgrades to your home? Learn more about SDG&E's [Energy Savings Assistance Program](#) where you could be eligible to receive free energy-efficient home improvements.



Get rewarded for saving energy by using a [third-party demand response provider](#)



Visit [San Diego Gas & Electric](#) to learn more energy efficiency tips



# LED Bulbs Made Easy

## Just Look for the ENERGY STAR®



- ★ Independently certified to deliver efficiency and performance.
- ★ Same brightness (lumens), 70–90% less energy (watts)
- ★ Lasts 15 times longer = big \$ savings
- ★ Help protect the environment and prevent climate change

Only LED bulbs that have earned the ENERGY STAR label have been independently certified and undergone extensive testing to assure that they will save energy and perform as promised.

**ENERGY STAR certified LED bulbs** are available in a variety of shapes and sizes for any application—including recessed cans, track lighting, table lamps, and more. You can even find certified bulbs that are dimmable. **Use this chart as a guide to finding the right ENERGY STAR certified bulb for your light fixture and remember to always check the packaging for proper use.**

BULB TYPES					
TABLE OR FLOOR LAMPS		STANDARD			
PENDANT FIXTURES		STANDARD	GLOBE	MR16	CANDLE
CEILING FIXTURES		STANDARD	CANDLE		
CEILING FANS		STANDARD	CANDLE		
WALL SCONCES		STANDARD	GLOBE	CANDLE	
RECESSED CANS		MR16	SPOT	FLOOD	
ACCENT LIGHTING		MR16	SPOT		

### BRIGHTNESS

For brightness, look for lumens, not watts. Lumens indicate light output. Watts indicate energy consumed. ENERGY STAR certified bulbs provide the same brightness (lumens) with less energy (watts). **Use this chart to determine how many lumens you need to match the brightness of your old standard bulbs.**

Standard Bulbs (Watts)	ENERGY STAR Bulb Brightness (Minimum Lumens)
40	450
60	800
75	1,100
100	1,600
150	2,600

### COLOR/APPEARANCE

ENERGY STAR certified bulbs are available in a wide range of colors. Light color, or appearance, matches a temperature on the Kelvin scale (K). Lower K means warmer, yellowish light, while higher K means cooler, bluer light.

2200K	3000K	3500K	4100K	5000K	6500K
WARM					COOL
Soft White, Warm White			Neutral White, Cool White	Daylight (think blue sky at noon)	
Ideal for most indoor applications.			Good for kitchens and work spaces.	Good for reading.	