



Home Lighting

Bright ideas
for energy savings.





Shedding light on new technologies

Lighting is one of the most visible ways you use energy in your home. While a single light bulb doesn't use much energy, all the lights in your home combined can account for up to 20% of your monthly electricity bill. Replacing as many regular lights with energy-saving models is one of the easiest ways to lower your energy costs.

And now that every incandescent light bulb has an energy-efficient equivalent, it's easy to save energy, save money and help protect the environment.



Battle of the Bulbs

Incandescent and compact fluorescent bulbs are the two types of lighting most commonly used in homes. Both are rated by the energy (watts) they use and their output of light (lumens). But that's where the similarities end, with CFLs the clear winner in energy savings.

Compact Fluorescent



Incandescent



How they work

Electricity is sent into a tube, where electrons collide with mercury vapor, and the energy released from the collision produces ultra-violet light. The ultra-violet light reacts with a phosphor coating inside the tube and creates visible light.

Electricity is sent to a thin tungsten filament, which creates heat in the filament. When this heat is created, about 10% becomes visible light.

Consumer basics*

13 watts	Wattage	60 watts
8,000 hours	Lifespan	750 hours
\$3.50	Estimated retail cost of bulb	50 cents
\$2.00	Annual energy cost	\$11.00
28 kWh	Annual energy consumption	131 kWh

*Based on \$0.15 electricity rate per kilowatt hour usage of two hours per day.

CFL Globe



*Every regular
light bulb in your
home has an
energy-efficient
equivalent.*

Circular Lamp



CFL A-Line



Decorative



LED Indoor Flood



Lighting 101

Today's energy-efficient lighting comes in a variety of shapes, sizes and wattages for virtually every household use. Take a look at the lighting products below, followed by suggested uses and energy-saving tips, and learn how you can light up your home for less — without sacrificing style or comfort.

Compact Fluorescent Lamp (CFL)

The most common type of energy-efficient light bulb, CFLs can fit into just about any fixture and serve most of your lighting needs—including dimmable and three-way lighting. And many ENERGY STAR®-qualified CFLs now turn on instantly, so there's no waiting for the bulb to warm up.

Light Emitting Diode (LED)

LEDs offer even greater savings than compact fluorescent light bulbs. LEDs produce a focused, directional light — making them an excellent choice for task, accent, landscape and holiday lighting. Efficient, durable and long-lasting, LEDs are also a great energy-saving option in areas where vibration is a problem — like a busy garage or under basement steps.

Photocell

Photocells use a sensor to automatically turn a light off when enough daylight is detected, and turn the fixture on when it becomes dark. Motion detection and sound activation are also available in certain styles.

Solar Cell System (or Photovoltaic Cell System)

Solar cells convert sunlight into electricity to generate solar power. Solar-powered LEDs and CFLs are ideal for landscaping or other outdoor uses.



LED Photocells



CFL Mini Spiral

Light Bulb Styles & Applications



	MR 16	GU 24	Spiral	A-line	Globe
Table/Floor Lamps	■	■	■	■	■
Pendant Fixtures	■	■	■	■	■
Ceiling Fixtures			■	■	
Ceiling Fans	■	■	■	■	■
Wall Sconces				■	
Recessed Cans	■	■	■		
Track Lighting	■				
Outdoor (covered)			■	■	
Outdoor Flood					
Chandelier	■				
Vanity Fixtures				■	■
Holiday Lighting					



Indoor/Outdoor Reflector

LED Reflector
high power

Decorative

Circular Lamp

LED Holiday Lights

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LED Holiday Lighting

Lighten Your Energy Load

Did You Know?

The average household has over 40 lighting fixtures. That's more than 40 opportunities to save!

Getting Started

Not sure where to begin? Start by changing out the lights and/or fixtures you use the most — or swap out more lights for even greater savings.

Buying Energy-Efficient Lighting

Choosing energy-efficient lighting is easy. With today's technology and wider selection of bulb styles, you're sure to find ideas and features to brighten your home, including:

"Instant On" Many of today's CFLs come in "instant on" models that turn on immediately. These lights are an excellent choice for motion-activated and security lights, as well as any other area where you need immediate illumination.

Dimmable Today, both CFLs and LEDs come in dimmer-compatible models - offering ambiance and energy efficiency. While dimmable LEDs cost more than their CFL counterparts, LEDs maintain their full light quality and color when dimmed. Regardless of which model you choose, for the best results, allow the bulb to reach full brightness before dimming.

Three-Way CFLs now come in three-way models, providing low, medium and high-level lighting, using 75% less energy than standard three-way bulbs. For the best results and biggest savings, look for CFLs labeled as compatible with three-way lamps.

Holiday Lighting LED holiday lights can save up to 90% or more when compared to traditional holiday lights. In addition, LEDs are durable and produce very little heat - making them safer to use. LED holiday lights are now available at most grocers, major retailers and home improvement stores.



LED Holiday Lighting



CFL Three-Way



CFL A-line Dimmable



Energy-Saving Lighting Tips

Did you know? You can save up to 80% on outdoor lighting costs by switching to energy-efficient lighting. Here are even more ways to help you save energy and money in every area of your home.

Attic/Basement CFLs - pairing CFLs with motion or occupancy sensors will help save by making sure lights won't be left on accidentally.

Bathroom CFLs - when lighting vanities or bathroom sinks, choose 'bright white' or 'daylight' CFLs, which most closely resemble natural daylight.

For vanities that have multiple light fixtures, switching to CFLs not only saves a lot of energy but eliminates the excessive heat generated by less efficient incandescent bulbs.

Bedroom CFLs - replace heat-producing halogen floor lamps with energy-efficient CFL torchieres in standard or dimmable options.

For even more savings, install automatic timers on floor or table lamps so they won't be left on unnecessarily. Automatic timers can also provide security lighting when no one is home.

LEDs - the directional and focused light of LEDs make them an excellent choice for reading lamps.

Kitchen CFLs /LEDs - depending on your fixtures and lighting needs, CFLs and LEDs can be used throughout your kitchen, including recessed ceiling cans, under kitchen cabinets and range hoods.

Dining Room CFLs/LEDs - save with your existing fixtures by installing a dimmer and choosing dimmable CFLs or LEDs.

Living Room CFLs/LEDs - installing CFLs and LEDs in recessed and track lighting saves energy and money. And because they last up to 10 times longer than regular light bulbs, you'll spend less time on step stools replacing older, inefficient lights.

Yard/Outside CFLs - use instant-on CFLs in motion sensors for energy-efficient security lighting. For even greater savings, add a photocell to keep lights off during the day.

CFLs /LEDs - install solar-powered LED fixtures to create a warm and inviting landscape that uses very little energy. Or, you can install CFL fixtures for greater illumination.



If each household in San Diego replaced just four 100-watt incandescent light bulbs with 23-watt CFLs, over 292,000 kilowatt-hours of electricity could be saved each year - enough to power more than 60,000 homes for a year.

CFL Disposal – Because CFLs contain small amounts of mercury, they must be disposed of properly. It is against the law in California to dispose of any lamps containing mercury in the regular solid waste trash and landfills.

Please visit sdge.com/lighting for more information, including a complete list of contacts for local municipalities and cities in the San Diego region who sponsor facilities or collection events that recycle spent CFLs.

You can also recycle spent CFLs at any Lowe's or Home Depot locations in SDG&E's service area, as well as IKEA / Mission Valley store.



For more information – If you'd like more energy-saving information, contact SDG&E at 1-800-644-6133, or by e-mail at info@sdge.com. You can also visit us at sdge.com/lighting.



Here for you, every day.™

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