

ENERGY- EFFICIENT LIGHTING

FACT SHEET



The average home has more than 50 light bulbs. By swapping out just one incandescent bulb for an ENERGY STAR® certified LED, you can save up to \$80 in electric costs over the lifetime of the bulb. Think how much you could save if you changed all your light bulbs!

What are LEDs?

LEDs, or light-emitting diodes, are semiconductor devices that produce visible light when an electric current passes through them. LEDs are one of today's most energy-efficient and rapidly developing technologies.

- ENERGY STAR certified LEDs use more than 75 percent less energy than traditional incandescent bulbs.
- Look for LED bulbs with the lumens you need, not watts consumed. For instance, an 800-lumen LED bulb replaces a typical 60-watt incandescent bulb.
- LEDs last dramatically longer than incandescent bulbs. The average lifespan for an incandescent bulb is 1,000 hours. An ENERGY STAR certified LED lasts up to 25,000 hours, all while maintaining high-quality light.
- Not all LEDs are dimmable or work in remote or three-way switches. Read the packaging carefully to ensure you get the appropriate LED.
- LEDs are "directional" light sources, making them ideal for recessed fixtures. For table lamps or other general-purpose fixtures, look for LEDs labeled "omni-directional."
- LEDs work well indoors and outdoors because of their durability and performance in cold environments.

Why should I choose ENERGY STAR certified LED lighting products?

There are more lighting choices available on store shelves than ever before. Even with all the new choices, it's still simple – look for the ENERGY STAR label. ENERGY STAR means high quality and performance, particularly in the following areas:

- Color Quality
 - Six different requirements for color to ensure quality up front and over time
- Light Output
 - Light output minimums to ensure you get enough light
 - Light distribution requirements to ensure the light goes where you need it
 - Guidelines for equivalency claims to take the guess work out of replacement
- Peace of Mind
 - Verified compliance with more than 20 separate industry standards and procedures
 - Long-term testing to back up lifetime claims
 - Testing to stress the products in operating environments similar to how you will use the products in your home
 - Three-year minimum warranty requirement

Just like all ENERGY STAR products, LED bulbs are subject to random testing every year to ensure they continue to meet the ENERGY STAR requirements.

Switching to LED is as easy as **1 2 3**

1 Match Your Fixture to the Right Bulb Type

ENERGY STAR® certified LED bulbs are available in a variety of shapes and sizes. Use this chart to find the right bulb for your light fixture, and remember to always check the packaging for proper use.

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		

2 Match Watts to Lumens

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

3 Match Light Color to Temperature

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.			



MidAmerican Energy provides discounted pricing on select ENERGY STAR certified LED bulbs. There is no need to complete a rebate form; the discounted pricing is instant, allowing you to receive the lower prices at the cash register. Just look for the Be Bright signage at participating retail locations.

Visit www.iowabebright.com or www.illinoisbebright.com.

