

LIGHTING



CHANGE FOR THE
BETTER WITH
ENERGY STAR



Touchstone Energy®
Cooperatives of Iowa

comfort



affordability



peace of mind



Shine with ENERGY STAR

ENERGY STAR® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy that helps us save money and protect the environment through energy efficient products and practices. Quality and performance are built into the ENERGY STAR guidelines.

Enjoy Savings and More!

The average U.S. household has more than 40 sockets for light bulbs, ranging from table lamps to ceiling fixtures. Lighting can account for about 20% of annual household electricity bills, or around \$200 per year. Replacing incandescent bulbs with ENERGY STAR qualified compact fluorescent light bulbs (CFLs) provides significant benefits.

Save Time and Effort

ENERGY STAR qualified CFLs can last eight times longer than standard incandescent bulbs!

Save Energy and Money

Over its lifetime, one ENERGY STAR qualified CFL can save you more than \$30 in lower energy costs.

Stay Cool and Safe

ENERGY STAR qualified CFLs generate about 70% less heat than standard incandescent lighting. This means they are cool to the touch, keep your home more comfortable, help reduce home cooling costs, and are safer to use in fixtures that have paper or fabric shades.

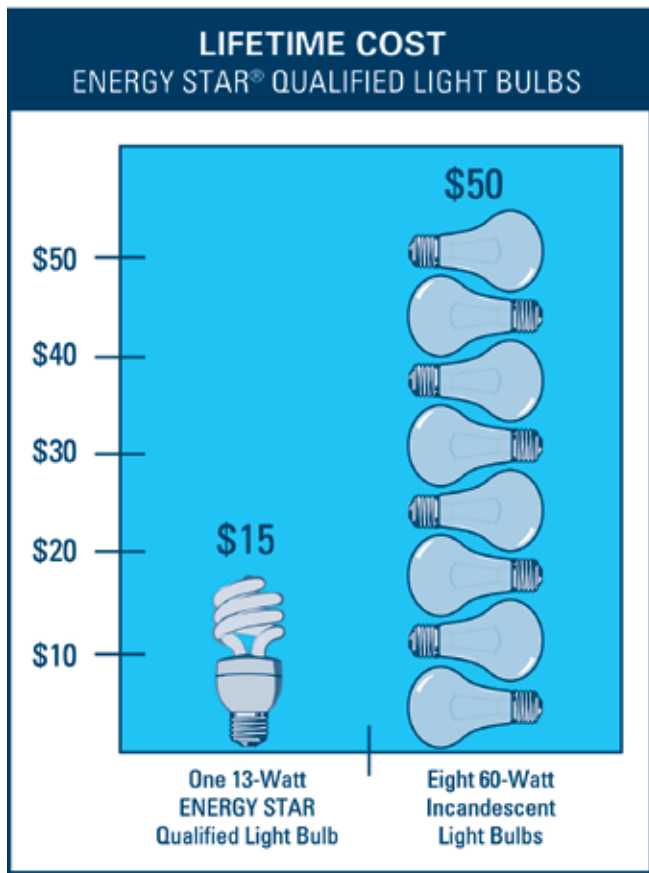


Star Performance

To earn the ENERGY STAR, bulbs must provide at least three times more light output per watt than standard incandescent bulbs. That means you get the same amount of light at only one-third the cost!

In addition, ENERGY STAR qualified CFLs must turn on instantly, produce no sound and fall within a warm color range or be labeled for cooler color tones. With an average rated life of 8,000 hours, an ENERGY STAR qualified CFL that is used 3 hours per day has a life of about 7 years.

Because CFLs are both economical and use less energy, your initial purchase price is usually recovered the first year.



The information in this brochure has been provided by ENERGY STAR.

The Right Light

The ENERGY STAR labeling will make it easy for you to find a qualified CFL with the amount of light equivalent to the incandescent bulb you are replacing. Common terms used on the packages will include “Soft White 60” or “60 Watt Replacement”.

You can also check the lumen rating on the label to find the right bulb. The higher the lumen rating, the greater the light output.

To determine which ENERGY STAR qualified CFL will provide the same amount of light as your current incandescent bulb, consult the following chart:

LIGHT OUTPUT EQUIVALENCY		
INCANDESCENT BULBS (WATTS)	MINIMUM LIGHT OUTPUT (LUMENS)	COMMON ENERGY STAR QUALIFIED LIGHT BULBS (WATTS)
40	450	9 TO 13
60	800	13 TO 15
75	1,100	18 TO 25
100	1,600	23 TO 30
150	2,600	30 TO 52

What is a Lumen?

A lumen is a measurement of light output. Unlike watts, which measure the power consumed by the bulb, lumens indicate the amount of light produced.



CHANGE FOR THE BETTER WITH ENERGY STAR



Where to Use

ENERGY STAR qualified CFLs provide the greatest savings in fixtures that are on at least two hours per day. Put them where you leave the lights on the most, such as the family/living room, kitchen, and dining room, to achieve the most savings.

ENERGY STAR qualified CFLs are available in many of the same colors as other bulbs. Choose the color that works best in your room and provides the look you desire or the brightness you need.

Are You Ready to Switch?

Learn where to use and how to choose ENERGY STAR qualified CFLs to maximize your satisfaction and savings. Costs are lower and more choices are available than ever before! Common shapes include:

- Spirals and mini-spirals
- Double, triple, and quadruple tubes
- Incandescent-shaped
- Covered globe, torpedo and bullet shapes
- Flood lamps

WARM LIGHT

FOR WARM INVITING LIGHT:

choose an ENERGY STAR qualified light bulb that states "warm white" or "soft white" on the package, with a color temperature of 2700 to 3000K.



COOL LIGHT

FOR COOL WHITE LIGHT:

choose an ENERGY STAR qualified light bulb that states "cool white" or "daylight" on the package, with a color temperature of 3500 to 6500K.



Go for Five

If you replace 5 regular light bulbs that burn 3 hours a day with ENERGY STAR qualified CFLs, you could save an average of 1,880 kWh, or about \$190 in electricity costs, over the lifetime of the CFLs. That's enough energy to run your ENERGY STAR qualified refrigerator for more than 4 years or to light your whole house for nearly a year!











































Fixtures Save Too

Light fixtures that have earned the ENERGY STAR combine quality and attractive design with the highest levels of energy efficiency available. Because ENERGY STAR qualified fixtures use only about one-third of the energy, when compared to traditional lighting, the savings can justify the investment to replace your existing standard fixtures. Always look for the ENERGY STAR label on new fixtures.

ENERGY STAR qualified fixtures come in hundreds of decorative styles including portable fixtures such as table, desk, torchiere and floor lamps; and hard-wired options such as wall, ceiling, chandelier, under-cabinet, and vanity fixtures. If you need a ceiling fan/light combination unit, ENERGY STAR qualified fixtures are almost 50% more efficient than conventional units. You can also find ENERGY STAR qualified fixtures that deliver convenient features such as dimming on indoor models and automatic daylight shut-off and motion sensors on outdoor models.

How to Choose

Finding the right ENERGY STAR qualified CFL for your home is easy! Just ask yourself: What shape and size will fit in the fixture? How much light do I need in the room? What color of light will look best? Use the chart to the left to find your fixture and then see which shapes are available.

		 CHANGE FOR THE BETTER WITH ENERGY STAR										
		HOW TO CHOOSE THE RIGHT ENERGY STAR® QUALIFIED LIGHT BULB										
		HARP SHADE	CLAMP SHADE	PENDANT FIXTURE	CEILING FIXTURE	CEILING FAN	WALL SCONCE	RECESSED CAN	TRACK LIGHTING	OUTDOOR COVERED	OUTDOOR EXPOSED	
FOR THIS FIXTURE												
	CHOOSE THIS BULB											
												
												

NOTE: Different fixtures need different types of bulbs, and Energy Star qualified CFLs may not always be appropriate. Be sure to check the CFL packaging for any restrictions on use. For example, fixtures that are enclosed, or that are connected to a dimmer, light sensor or three-way switch require CFLs that are suited to those conditions. Choose only CFLs that are labeled as being safe for use in your specific fixture.

To learn more, visit the ENERGY STAR website at www.energystar.gov.