

ENERGYwise

FOR YOUR HOME



Compact Fluorescent Lamps (CFLs)

If every American home replaced just one light bulb with an ENERGY STAR qualified CFL, we would save enough energy to light more than three million homes for a year, save more than \$600 million in annual energy costs, and prevent greenhouse gases equivalent to the emissions of more than 800,000 cars.

ENERGY STAR Qualified CFLs:

- Use about 75 percent less energy than standard incandescent bulbs and last up to 10 times longer
- Save about \$30 in electricity costs over each bulb's lifetime
- Produce about 75 percent less heat, making them safer to operate and cut energy costs associated with home cooling
- Are available in different sizes and shapes to fit in almost any fixture, indoor or outdoor



To choose the CFL with the right amount of light, find a qualified CFL that is labeled as equivalent to the incandescent bulb you are replacing.

Where to Use CFLs:

For maximum energy savings, ENERGY STAR recommends using qualified CFLs in fixtures that are on for substantial amounts of time each day—from 15 minutes to several hours. For most households, the best fixtures for using qualified CFLs are found in:

- Family and Living Rooms
- Kitchens
- Dining Rooms
- Bedrooms
- Outdoors

How to Choose the Right CFL:

Follow these guidelines for matching the right CFL to the right fixtures to ensure long-lasting, properly performing lighting.

- CFLs perform best in open fixtures that allow airflow such as table and floor lamps, wall sconces, pendants, and outdoor fixtures
- For recessed fixtures, it is better to use a reflector CFL than a spiral CFL since the design of the reflector evenly distributes the light down to your task area

— continued on back

If every home replaced one light bulb with a CFL, we would save enough energy to light three million homes a year

- If a light fixture is connected to a dimmer or a three-way socket fixture, you'll need to use an ENERGY STAR qualified CFL that specifies compatibility with those fixtures
- Choose the shade of light that will work best for your lighting needs. Most CFLs provide warm or soft white light for general home lighting, however, a cooler color may work better for task lighting
- Get the right amount of light by finding an ENERGY STAR qualified CFL that is labeled as equivalent to the incandescent bulb you are replacing. Light bulb manufacturers include this information directly on the product packaging using common terms such as "Soft White 60" or "60 Watt Replacement." Also check the lumen rating to find the right CFL. The higher the lumen rating, the greater the light output

CFL technology is continually evolving and improving, so if you haven't found the right lamp in the past, you may want to look again to see what is available.

CFL Disposal — Closing the Loop:

- CFLs contain a small amount of mercury that can be harmful to the environment. Each bulb contains approximately five milligrams of mercury, enough to cover the tip of a pen. Approximately half of the mercury in the bulb is vapor and the other half is contained in the powder and the glass
- Because CFLs contain mercury it is important that they are recycled. In Minnesota, it is illegal to place them in the garbage
- Recycle your used CFLs at many local recycling centers or at your community's next household hazardous waste collection event
- Find out your options for recycling by going to: www.minnesota.earth911.org or www.pca.state.mn.us

Contact us

To save energy and money, call REA at: 320-762-1121

LIGHT OUTPUT EQUIVALENCY

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

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

MY FIXTURE HAS AN/A...

DIMMER	You'll need a special dimmable CFL.
THREE-WAY SOCKET	You'll need a special three-way CFL.
ELECTRONIC CONTROL	Check with the manufacturer of your photocell, motion sensor, or timer.

WHAT COLOR WOULD WORK BEST?

With CFLs, you have options for your white light. Light color is measured on the Kelvin scale (K). As you see below, lower numbers mean the light appears yellowish and higher numbers mean the light is whiter or bluer.

Warm White, Soft White		Cool White, Bright White		Natural or Daylight	
Standard color of incandescent bulbs.		Good for kitchens and work spaces.		Good for reading.	
2700K	3000K	3500K	4100K	5000K	6500K

