

## Replace Your Five Most Used Lights

Dear Electric Customer,

On behalf of the City of Aspen Utilities Department, I would like to thank you for accepting the challenge to replace your five most frequently used light bulbs with energy-saving Compact Fluorescent Lights (CFL's). The CFL's in this sample package represent only a small variety of the many styles and applicable uses of available CFL's. It is our hope that you find energy saving CFL's suit your lighting needs and encourage you to continue, wherever possible, to replace energy consuming bulbs with CFL's.

Jeff Rice  
Utilities Conservation Analyst

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	COMMON ENERGY STAR QUALIFIED LIGHT BULBS
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

Mitzi Rapkin

**Compact Fluorescent Lights (CFL's)** CFL's are energy saving bulbs that replace your standard energy consuming incandescent light bulbs. If you have tried CFL's in the past and were disappointed with their performance (flickering, buzzing, unconventional shapes), then it is time to revisit this energy-saving technology.

**Convenience of CFL's** Once upon a time you could only find CFL's in twist and twirl shapes with severely limited applicable uses. Today CFL's come in a wide variety of styles and wattages to suit most lighting needs and are available where most standard bulbs are sold. Current designs go far beyond the standard light fixture. CFL's now come in a wide array of wattages, three ways, dimmable, spot and can lighting, candelabra, globes, and even shapes that replicate a standard incandescent bulb for clip on lamp shade applications.

**Energy Saving** CFL's use, on average, less than 1/3 the energy as its equivalent incandescent bulb. For example, you can use a 23 wt CFL to replace your 100 wt incandescent bulb and get the same light output. An 18 – 20 wt CFL is equivalent to a standard incandescent 75 wt and a 14 wt CFL will replace a 60 wt incandescent bulb. In the case of the 14 wt CFL, that is a reduction in energy consumption of more than 400%!

**CFL's Save Money** Many people think CFL's are not cost effective because they cost more than standard incandescent bulbs. Not true! A standard 75 wt incandescent bulb costs about \$0.60 and has a life span of 800 to 1,000 hrs. The equivalent 20 wt CFL costs \$2.25 (bought in four packs) and has a rated life span of 10,000 hours. That is the equivalent of buying ten standard bulbs or a translated savings of \$3.25 up front per bulb! The current City of Aspen residential electric rate for the first 700 kWh (kilowatt hour) used is \$0.0625 per kWh. Let's say you use your light for 3 hours a day, 360 days a year, for a total of 1,080 hours. Using a 75 wt equivalent CFL (only 20 wt) you would save

nearly 60kWh or an average of \$3.75 per bulb per year. This is a savings of nearly \$34 over the life of that single CFL! If your past electric use has been more than 2000kWh per month (current rate \$0.1172 per kWh) your savings will be greater. The average home has 41 light fixtures. You do the math. CFL don't cost! They pay!

**Safety and Health** A standard incandescent bulb uses electricity to heat a filament to a glowing white hot to produce its light. 80% of that energy is lost as heat given off the filament. Not only is this a waste of energy but has been implicated in fires. CFL's operate at less than 100 degrees F. Halogen bulbs can reach temperatures of 1,000 degrees F! Approximately one-third of the human population is sensitive to the flicker in old technology CFL's. This flicker has been implicated in triggering migraine headaches. The new technology in all Energy Star-qualified CFLs has eliminated this flicker.

**The Environment** The environment is also a beneficiary when using CFL's. According to the EPA, "If every household in the U.S. replaced one light bulb with an Energy Star qualified CFL, it would prevent enough pollution to equal removing one million cars from the road." Doing your part to reduce carbon emissions by lowering your energy consumption is as easy as changing a light bulb! CFL's, just do it!





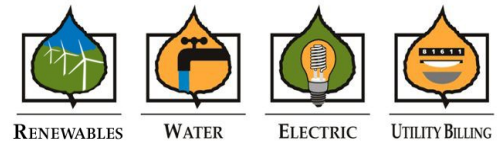
For more information about CFL's or other energy efficiency programs offered by the City of Aspen Utilities Department please visit [www.aspenpitkin.com/energyefficiency](http://www.aspenpitkin.com/energyefficiency)

or you are welcome to contact  
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**CFL's  
 THESE ARE NOT YOUR  
 PARENTS LIGHT BULBS!**

THE CITY OF ASPEN  
 UTILITIES



**UTILITIES EFFICIENCY  
 PROGRAMS**

**Sponsored by:  
 City of Aspen Utilities Department**