

## "GREEN" BULBS CAN LOWER YOUR BILLS

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These days, it seems that everyone is striving to "live green." With so many options, it may be hard to know where to begin. You can make big changes, like driving a hybrid vehicle or installing solar panels on your home, but you can also start with simple changes, like refilling your own water bottle or using cloth bags at the grocery store.

The good news is that one small change can lead to lower energy bills, as well as have a positive impact on the environment. Just start with one light – one compact fluorescent lightbulb, or CFL.

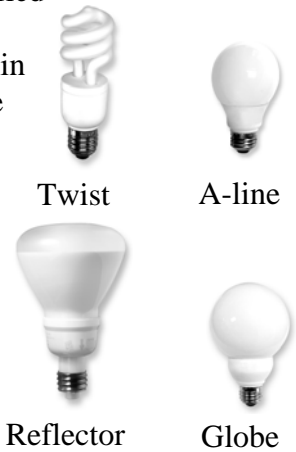
To help customers make the switch to energy-efficient CFLs, Arizona Public Service Co. has partnered with retailers to offer

its customers reduced prices on a selection of Energy Star qualified CFLs. These discounts make the price of the bulbs – which can last up to seven years - more comparable to incandescent bulbs.

For homeowners and the environment, the benefits of CFLs are many. They use up to 75% less energy than incandescent bulbs, which over the lifetime of the bulb can save you up to \$30 in lighting costs. Multiply these savings by the many bulbs in your home, and you can see the savings add up.

Lower cooling costs are also associated with CFLs, since they give off 75% less heat. Less energy use at home helps reduce carbon emissions from power plants.

All Energy Star qualified CFLs start instantly and reach full brightness within a minute. Many styles are available, including the unique "twist," plus globes, reflectors and more traditional a-line styles.



Getting started with CFLs at home is simple. First, identify the areas where lights are on the most (where you have the most opportunity for savings) – usually the kitchen-ceiling light, living-room table lamps, bathroom vanities, or outdoor lights.

Second, determine how much light, or lumens, you need. A 60-watt incandescent puts out about 800 lumens of light, the same as a 15-watt CFL.

Recommended area	Recommended CFL style	Incandescent (watts)	Lumens	CFL (watts)
Living room table lamp	A-line or twist	60	800	13-15
Bathroom vanity	Globe	40	450	11
Kitchen ceiling light	Twist	60	800	13-15
Family room recessed lights	Reflector	75	1,000	20
Outdoor flood light	PAR38 reflector	100	1,600	25

Finally, think about the style. Reflectors are ideal for recessed cans, globes are great for bathroom vanities and a-lines are perfect where the bulb extends beyond the fixture. If the fixture is a 3-way, or on a dimmer switch, look for CFLs rated “3-way” or “dimmable.”

Lately, concerns have been raised over the amount of mercury in CFLs. According to the Environmental Protection Agency, the amount of mercury in one CFL is about 5 milligrams, an amount that would cover the tip of a ballpoint pen.

However, no mercury is released while the bulb is in use, and manufacturers are taking steps to further reduce the amount of

mercury in their products. In addition, APS is working with local retailers to provide convenient sites where you can drop off used CFLs for recycling.

For more information on CFL discounts, participating retailers, and proper disposal and recycling options, visit [www.aps.com](http://www.aps.com).

***Tom Hines manages the residential energy-efficiency programs at APS, the largest and longest-serving electricity utility in Arizona.***