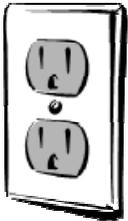


(cut off this section and post near light switch or door)

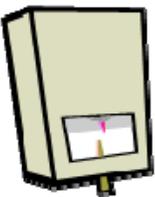
DID YOU REMEMBER...?



Turn off the lights and all electronics when you are finished using them.



Unplug all chargers and power strips to avoid phantom load.



Turn off your thermostat or set the temperature warmer during the summer and cooler during the winter.



Small Steps...

- ◆ **Schedule a home energy evaluation.** Let experts make suggestions to reduce your energy bill. Visit www.tva.gov/ee for details.
- ◆ **Purchase energy efficient appliances** when they need replacing.
- ◆ **Add insulation to your walls and tighten window and door seams.** It will help keep your warmed or cooled air from leaking.
- ◆ **Turn off your computer monitor and television** when you are finished. As much as 2/3 of the energy required to run a computer is used in the monitor.
- ◆ **Change your light bulbs to compact fluorescent light bulbs (CFLs).** They use less energy and last longer than incandescent bulbs.
- ◆ **Allow your laundry to air dry** on a clothesline instead of using the dryer.

Did you know?

Each month, the average Knoxville single-family home uses 1,302 kWh in electricity with an average monthly energy bill (at a rate of 8.98 cents per kWh) of about \$117.

If the average Knoxville family reduced energy use down to the national average (920 kWh), their monthly bill would become \$83 saving about \$34 each month.*

* Source: Knoxville Utilities Board (KUB)

CITY OF KNOXVILLE

Citizen's Guide to Sustainability

Energy Conservation



CITY OF KNOXVILLE

Office of Energy and Sustainability
City County Building, Room 655

Phone: 865-215-2029

Fax: 865-215-3035

E-mail: Sustainability@cityofknoxville.org

Big Steps... Fix Air Leaks in your Home

TOOLS

- 1x Infrared temperature gun (~\$30)
 - 1x Incense stick
 - 1x Door Blower (optional)
 - 1x Silicone-based caulk for construction use
- Weatherstripping and installation tools



1. Search for places where air might escape:

door and window frames, electrical outlets, mail chutes, outdoor siding, and where the dryer vents to outside. Check your siding and foundation for cracks.

2. Record the temperature near where a potential crack may be using the temperature gun and another place in the room. If the temperatures are drastically different, then there is likely a leaking air. Perform this analysis for all potential leak spots.

3. Confirm data from step 2: On a windy day, turn off the HVAC system. Turn on all fans that blow air outside, such as a stove vent or bathroom fan. **Light incense and pass it around the edges of common leak sites.** If the smoke is sucked out or blown into the room, there is a crack that should be sealed.

4. You may also depressurize your house with a door blower. Door blowers measure how much air it takes to change the pressure inside the house. The more air it takes, the more cracks your house has.



5. Use caulk to easily seal around drafty windows and door frames in places you have found leaks.

6. If you have doors and windows that leak (rather than the frames), **apply weatherstripping.** Different cracks need different types of weatherstripping. For example, the stripping at the bottom of a door will need to be very durable to withstand being dragged across the floor.

7. Consult the installation instructions on the weatherstripping package and finish all cracks. Then enjoy a more sealed home and a lower electricity bill each month!

Information on weatherization provided by the Department of Energy. Blower door picture provided by ENERGY STAR.



- ◆ Incandescent bulbs shine light as a byproduct of heat, working at 350°F. CFLs operate at 90°F. This means CFLs use less energy (much less is wasted as heat) to emit the same amount and quality of light.
- ◆ A CFL will save about \$30 over its lifetime and pay for itself in 6 months. It uses 75% less energy and lasts about 10 times longer than an incandescent bulb.

Clean up a broken CFL

To avoid breaking CFLs, screw them in by holding them at the base, not by the glass part.

1. Air out the room for 15-30 minutes.
2. Open a window and turn off central A/C or heat.
3. Scoop up glass fragments and place in a glass jar or sealed plastic bag.
4. Use sticky tape to pick up smaller pieces of glass. Vacuum if necessary on a carpeted surface, but do not vacuum on a hard surface. Instead, wipe the area clean with damp paper towels or disposable wet wipes. Place them in the jar or bag too.
5. Place all clean-up materials outdoors until you can take the materials to a drop-off location like local hardware stores or recycling centers.
6. Wash your hands.

The next few times you vacuum, shut off the central A/C or heat and open the window and let the air circulate for 15 minutes after vacuuming.



Recycle CFLs at...

Household Hazardous Waste (1033 Elm Street), all Knox County Recycling Convenience Centers, most large hardware stores