

Residential energy efficiency pilot program - Fact sheet

Wilson family pilot project - Trenton, Mo.

Fred and Barbara Wilson were selected by their local cooperative, Grundy Electric, to participate in a residential pilot project through the Take Control & Save energy efficiency program. After an energy audit of the Wilson's 30-year-old manufactured home, the cooperative installed several measures to reduce electricity use.

Problems identified:

- Excessive whole-house and duct work air leakage
- Inadequate attic insulation
- Old and inefficient appliances

Member goals:

- Reduce draftiness throughout the home
- Fix insufficiently heated and cooled rooms
- Reduce energy use and bills

Completed energy efficiency measures:

- Added insulation to the attic
- Sealed air leaks in window, doors, rim joists, duct work, basement walls and around cooking stove vent
- Replaced inefficient 10 SEER (Seasonal Energy Efficiency Ratio) air conditioner with an energy-efficient 14 SEER model
- Replaced inefficient refrigerator, clothes washer and chest freezer with ENERGY STAR[®] models
- Installed a water heater blanket and hot water pipe wrap
- Replaced broken picture window in living room
- Replaced all lighting with compact fluorescent light (CFL) bulbs
- Installed foam gaskets on electric outlets and light switches

Wilson home statistics:

- Construction type: manufactured
- Exterior: metal siding
- Home style: single family
- Age of home: 30 years
- Square footage: 1,425

Energy audit information:

- Conducted June 16, 2008
- By Green Hills Community Action Agency

Energy and money-saving results!

- Saving an average of 207 kWh every month, or **2,484 kWh every year!**
- Saving an average of \$18 every month, or **\$213 every year!**
- CFM (Cubic feet per minute) reduction of 1,921 (*from 4,370 to 2,449*)
- ACH (Air exchanges per hour) reduction of 10.18 (*from 23.08 to 12.9*)
- **Air leakage reduction of 44 percent after air sealing the home!**

