

## LEAP SUCCESS STORY



**Kathleen Brumbaugh**  
**2002 Two-story home**  
**2,300 sf, 3 BR 2.5 BA**  
**Heat pumps**  
**Location: Palmyra, VA**

**Projected Energy Savings:**  
**20%**



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One might assume that a 2002 house isn't old enough to cause high energy bills and comfort issues, but Kathleen Brumbaugh and her family would tell you otherwise. Even with a fair amount of insulation, her son's bedroom and husband's office above the garage were trouble spots caused by, among other things, duct work exposed to unconditioned spaces creating a loss of heat. Winning a \$2,500 makeover in the 2011 PowerSaver Home Energy Makeover Contest was just the start they needed. Within days they could feel a difference and had turned the thermostat down to 63 and removed flannel sheets from the beds.

### ***Basic Issues Uncovered in the Home Performance Assessment:***

- Air handlers and duct work in cold vented attic and crawl spaces
- Comfort issues in home office over garage
- Comfort issues in front bedrooms from overhang
- Upstairs air handler leaking and needs servicing
- Base load energy use is high

### ***Energy Improvement Measures Implemented:***

- Air sealed entire attic and duct work
- Foamed slopes and behind knee walls in home office over garage
- Blown cellulose over existing insulation
- Insulated access panel to attic, crawl space access door and all vents in crawl
- Sealed front porch overhang with spray foam
- Taped all floor registers with metal tape and replaced 40 lightbulbs with efficient bulbs (DIY by homeowner)



*"I had no idea what a significant difference the spray foam and blown insulation would have. Being a fan of HGTV and their shows, I always see them spray foaming and talking about the energy efficiency. and now I am a believer. The crew was more than professional and wonderful to work with. We have yet to put the heat past 68 in our house... when I used to run it at 72 despite the looks from my husband!"*

*- Kathleen Brumbaugh*

*Contractors: Creative Conservation*