



Lori Kressin & Diane Whaley  
1960 split level home  
1,376 sf, 3 BR 1.5 BA  
Older heat pump  
Location: Charlottesville, VA

Projected Energy Savings:  
**25%**



## LEAP SUCCESS STORY

Over the years, Diane and Lori had done plenty of home improvements – renovating the kitchen, replacing the roof and painting throughout. But those cosmetic fixes couldn't change the fact that the house was cold in the winter and hot in the summer. Their home energy assessment was eye-opening and outlined a game plan that has made their home more comfortable, more efficient and worth more.

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

- Exposed soil in crawlspace creating damp conditions
- Crawlspace and basement insulation is poor or missing
- Back overhang allowing air leakage and temperature transfer from outside
- Air sealing needed at exterior doors, attic hatches, kitchen cabinets
- Ductwork in basement is poorly configured, leaky and uninsulated in places
- Heat pump is very old

### Energy Improvement Measures Implemented:

- Apply vapor barrier over all exposed soil in crawlspace
- Apply sprayed foam insulation to exterior walls in crawlspace/basement
- Air seal/insulate back overhang
- Install ENERGY STAR heat pump and NEST programmable thermostat
- Reposition air handler in basement for better air flow and air seal insulate area
- Air sealing and clean ductwork
- Add MERV 10 air filter
- Redirect front right downspout to keep moisture away from foundation

#### Contractors:



*"Until we had the audit, we blamed most of it on our aging heat pump. Turns out, that heat pump was working double-time. We had such a 'leaky' house we were basically heating the neighborhood! We used our audit to prioritize the work. It has made a tremendous difference - we no longer have to use our gas fireplace to keep us from freezing, and we're actually looking forward to the summer! It's great the house is more comfortable, but perhaps even better, our bills have gone down each month since the work has been done. The LEAP audit provided us the data and the game plan to get things done, and now our home is more comfortable, more efficient, and worth more in the long run."*

*- Diane Whaley*