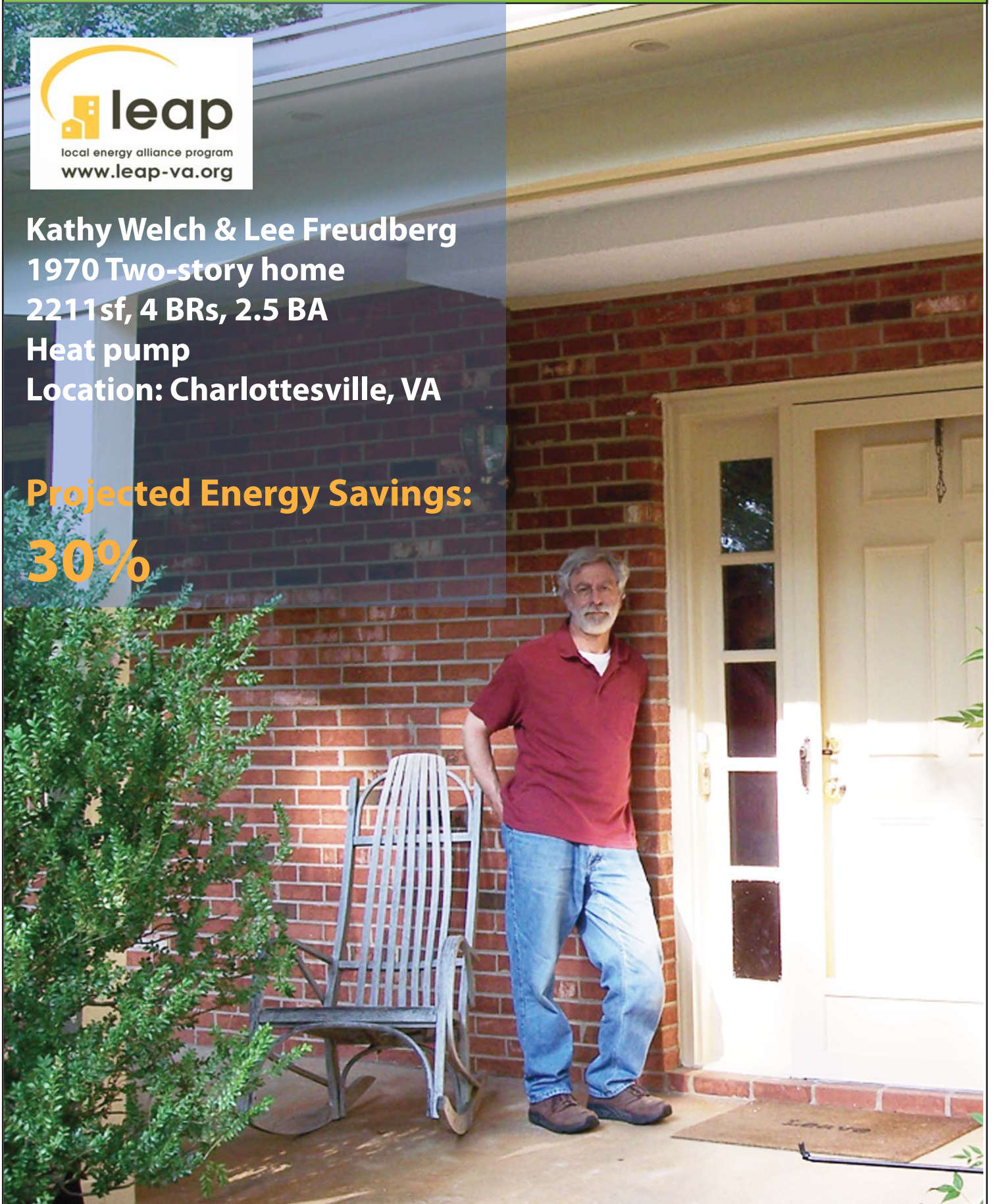


LEAP SUCCESS STORY



Kathy Welch & Lee Freudberg
1970 Two-story home
2211sf, 4 BRs, 2.5 BA
Heat pump
Location: Charlottesville, VA

Projected Energy Savings:
30%



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Kathy and Lee had been trying to solve a persistent energy-related problem for years. Snow always melted on one section of their roof before the rest, and they knew this meant trouble. Uncomfortably cold winters and high energy bills confirmed it. Adding insulation didn't help. They decided to have a home energy assessment to solve all their issues once and for all.

Basic Issues Uncovered in the Home Performance Assessment:

- A poorly insulated attic contained leaky ductwork
- The unusual roof configuration was allowing air leakage into the floor system
- Ducts were not air sealed or insulated adequately
- Older, low efficiency water heater
- Older appliances from the early 1990s

Energy Improvement Measures Implemented:

- Ductwork in attic was repaired or replaced and the insulation level was increased
- Targeted air sealing reduced air infiltration, the cause of comfort + energy problems
- All ductwork was air sealed and insulated
- Installed a new electric water heater with an Energy Factor of .95
- Purchased an Energy Star front loading clothes washer

Expected Benefits:

- Expected benefits: Greater overall comfort, 30% savings in heating and hot water bills.



“Every fall we thought about moving rather than suffering through another miserable winter. We had done everything we could think of to address the problems in our attic, including crawling around up there trying to seal duct leaks (we’re in our 60s!) and adding insulation so deep it covered the ductwork. The results of the energy assessment were really eye-opening. We finally understood what was wrong with our house. With the work completed, we’re looking forward to a more comfortable winter, but what I didn’t expect was the dramatic increase in comfort we’ve already experienced this summer.”

- Kathy Welch

Name of auditor: Key Green Energy Solutions

Contractor: Abrahamse & Company, Weatherseal, Comfort Source