

# Deep Energy Retrofit

## Single-Family Home

1,325 sq ft  
Built in the 1950's

### Improvements:

Basement air sealing  
Basement insulation  
Attic air sealing  
Attic insulation  
Cellulose wall insulation  
2.5" rigid foam wall insulation  
Exterior doors  
Boiler replacement  
Programmable thermostat  
Energy recovery ventilator  
Bath fan with air exchanger  
Interconnected smoke alarms

### Special Financing:

10% rebate  
Energy Smart Loan

### Measured Savings:

74% air leakage reduction



When Will and Mariellen heard that Snug Planet was looking for homes to include in a Deep Energy Retrofit study, they jumped at the chance to take part.

“My wife and I both work from home and we spend way too much on energy,” reported Will. A Snug Planet energy audit determined that their house would indeed be a great candidate for the study.

Informed by a whole-building analysis, the deep energy retrofit (DER) takes energy efficiency to the next level. For Will and Mariellen this meant significant upgrades to the building envelope, heating system and ventilation system. The Snug crew filled their wall cavities with cellulose insulation and removed their siding in order to wrap their house in 2.5 inches of rigid foam. After achieving a dramatic 74% reduction in air leakage, the crew installed an energy recovery ventilator to provide fresh air while conserving the building's heat.

Will and Mariellen embraced this approach to reduce their home's utility costs and carbon footprint while improving comfort and value.



## In the Customer's Words

*The house has felt much different since the project. Aside from enjoying warmer floors and air temperatures we also notice a lack of fluctuations in temperature. We had a prolonged cold spell this year compared to the very mild winter last year and I'm not sure how we would have gotten through it without the work. Snug was great!*

- Snug Planet customer Will V.