



Omar and Amy's Energy Efficient Home

INSULATION AND AIR SEALING



“Knowing we have an old house that lacked insulation motivated us have the assessment. Winters were much colder and our bills were higher before the work was done.”

-Omar Guevara, Ossining

YEAR: 1920

BEDROOMS/BATHS: 4 BR/2 BA

STYLE: CAPE

HEAT SOURCE: NATURAL GAS BOILER

SQUARE FEET: 1,320

NATURAL GAS SAVINGS: 18%

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Omar Guevara and his wife, Amy Wylegala, knew their house lacked insulation and wanted to take action to cut back on energy bills and lower their environmental impact. After their neighbor had a great experience with Sustainable Westchester and shared rave reviews about the results of their home improvements, Omar thought “why shouldn’t I be saving money too?” He decided to have a comprehensive home energy assessment. During the assessment, the contractor discovered that the house had virtually no insulation, except for antique newspaper!

The assessment report from BrightHome proposed insulation and air sealing work. The improvements immediately resulted in a more comfortable home. In addition to Energizing, Omar and Amy have continued to lower their energy bills by using a programmable thermostat, installing LED lights and solar panels. Amy is happy with the project stating “using less energy to power our home feels so much more natural to me.”

HOMEOWNER CONCERNS

- Old insulation did not meet modern standards
- High energy costs
- Very cold and drafty house during the winter

PROBLEMS UNCOVERED

- Insulation was made of crumpled newspapers!
- High air flow throughout the home

IMPROVEMENTS COMPLETED

- Air sealed the building envelope of the home to reduce the building air leakage from 3835 CFM50 to 2060 CFM50, a 46% Reduction
- Rim joist in the basement was air sealed and insulated with 2” closed cell spray foam
- Dense packed cellulose insulation in the exterior walls
- Insulated the attic floor with cellulose insulation to R-Value 50

BENEFITS & IMPACT

- More comfortable temperature in the house
- Lower energy bills
- Happy to reduce energy waste and GHG emissions

NATURAL GAS SAVINGS: 18%