



Home Performance with ENERGY STAR®

Home Performance with ENERGY STAR offers proven whole house solutions.

PROJECT INFORMATION

Program Name

- Home Performance with ENERGY STAR

Customer

- Nancy Conlan

Location

- West Milford, New Jersey

Installed Measures

- Boiler
- Indirect domestic water heater
- Air sealing
- Insulation

Project Cost

- \$10,777

Financial Incentives

- \$4,000 incentive
- \$6,277 loan
- \$500 tax credit

PROJECT SAVINGS

Total Energy Savings

- 27.9%

Estimated Annual Savings

- \$240-\$300 on utility bills
- 254 gallons of oil saved/year

*There were no kWh savings as the electric systems were not upgraded and there was no central air conditioning in the home.

Annual Emission Reductions

- 5,279 pounds of carbon dioxide eliminated

Environmental Benefits

- Savings are equivalent to the carbon dioxide emissions that would result from 5.6 barrels of oil consumed.



“The added insulation in the rim joist area and the crawl space has surprisingly made a huge impact. My new heating system is much quieter than it was before. The upgrades have really made a difference. I seemed to use as much oil in the summer to heat water as I did in the winter – not this year!”

– Nancy Conlan,
homeowner

Challenge

Nancy Conlan was burning through 2½ gallons of oil per day to heat her 43 year-old, 1,176 square foot home. Her utility bills were high, and her heating vents would make loud, disturbing noises. She was about to retire from her job and needed to make her home more comfortable for her and her mom, who is in her 90's. Nancy decided to investigate having solar panels installed on her roof.

A solar company came out and assessed her situation and told Nancy that her house was not a good candidate for solar panels because her home is surrounded by woods and she does not get enough sunlight. The company recommended Nancy consider having a home energy assessment performed through the Home Performance with ENERGY STAR Program.

What is Home Performance with ENERGY STAR?

Home Performance with ENERGY STAR offers whole house solutions to improve comfort and reduce energy costs by up to 30%. To get started, a Building Performance Institute contractor performs a home assessment to identify energy efficient recommendations. Attractive financial incentives and low-interest financing are available to help pay for the energy efficiency upgrades.

Solution

After a home assessment was conducted on Nancy's home, the contractor provided a report listing the recommended energy improvements. Nancy decided to move ahead with installing a new boiler with a separate zone for the indirect fired water heater in addition to air sealing and adding insulation in the basement and crawl space. Prior to the insulation, there was a one foot gap between the first floor and her basement. Nancy said she did not realize how drafty her home was until the air sealing and insulation were installed.

Nancy's total energy savings was almost 28% after the work was completed. She benefited from a \$4,000 incentive and a zero-percent interest loan.