



Home Performance with ENERGY STAR® Bamford Residence

PROJECT INFORMATION

Project Name

- Home Performance with ENERGY STAR

Customer

- Anita Bamford

Location

- Union County, NJ

Project Cost

- \$6,000

Financial Incentives

- 10% cash back - \$600

PROJECT SAVINGS

Estimated Annual Energy Savings

- \$1,689

Annual Energy Benefits

- 445 kWh
- 1,047 BTUs
- 6,384 pounds of carbon emissions

Payback Period

- Three years

Project savings and environmental benefits vary by customer based on the size and condition of the home, scope of project, and energy use of residents.



“After our Home Performance with ENERGY STAR contractor insulated our home, we’ve noticed increased comfort and less outside noise coming into the house. Plus our electric and heating bills have gone down.”

Anita Bamford

Program Description

Home Performance with ENERGY STAR features “whole house” solutions to help New Jersey residents save up to 30 percent on their energy costs and reduce their carbon footprint. Specially trained and certified contractors assess homes of any style, size or price range for energy efficiency and overall performance, and then recommend improvements, costs of those improvements and available financial incentives.

Background

After six months of living in their 95-year-old home, Anita and Rob Bamford became concerned about their costly energy bills and drafty rooms. The couple also noticed potential ice damming on the roof of their 2,000-square-foot home, a sign of heat loss from the house. Left uncorrected, ice dams cause water to back up behind the dam and leak into the home causing damage to walls, ceilings, insulation and other areas.

After researching energy efficiency online, the Bamfords discovered Home Performance with ENERGY STAR, sponsored by the New Jersey Board of Public Utilities and New Jersey’s Clean Energy Program™. Home Performance with ENERGY STAR is a program that helps homeowners find accredited contractors who can deliver advanced energy efficiency improvements to homes in order to save money, energy and the environment. Under the program, homes of any style or size can be improved to reduce energy use and decrease costs by up to 30 percent.





Home Performance with ENERGY STAR® Bamford Residence



The Bamford residence is more comfortable and uses less energy thanks to Home Performance with ENERGY STAR.

Challenge

Shore Insulation of Spring Lake, New Jersey, was tasked with assessing the energy efficiency of the Bamford residence and recommending a plan to address their concerns about high energy costs and comfort. Accredited by the Building Performance Institute (BPI), Shore Insulation performed a Home Performance assessment to evaluate the whole home using building performance techniques and technology. Contractors participating in Home Performance with ENERGY STAR are trained to use advanced diagnostic equipment that can include a blower door test to measure air infiltration, an infrared camera to detect inadequate insulation, a smoke pen to identify drafts and leaky ducts, and a carbon monoxide detector to make sure combustion gases are not leaking into the home.

Solution

After completing the assessment, the contractor provided the homeowner with a report of the results and a recommended plan of action that included installing insulation in all the exterior walls of the three-story home. In just two days, the roof was insulated, as was the area connecting the third floor living space to the exterior roof to address ice dams. All air leaks in the basement and drafty areas throughout the house were properly sealed. The Bamfords also installed high efficiency windows and switched some of their standard light bulbs to ENERGY STAR qualified compact fluorescent bulbs.

Benefits

As a result of the energy efficiency home improvements, the Bamfords are enjoying a comfortable home that uses less electricity and costs less to heat. They are now saving more than 30 percent a year on their utility bills.

Financial Incentives

New Jersey's Clean Energy Program sponsors Home Performance with ENERGY STAR, which offers:

- Low-interest financing options
- Cash-back incentives of up to 50 percent on energy efficient installed measures

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To learn more about New Jersey's Clean Energy Program,
and to find out why **clean energy is smart business**, go to NJCleanEnergy.com.

