

# Energize New York Case Study

“I had an excellent experience. I was very pleased with the initial home energy assessment results. The insulation has worked wonders and I can't say enough how valuable the program was.”



## **Peter Korn - New Rochelle, NY**

Year & Style: 1952 Ranch on Slab

Square Feet: 2,232

Bedrooms/Baths: 4 BR, 3 BA

Heat Source: Natural Gas Furnace

## **Home Performance Contractors**

Phoenix Mechanical

New York Energy Conservation

# **Natural Gas Savings: 33%**

Get your free\* home energy assessment today!  
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# Energize New York Case Study

Peter Korn first considered energy efficiency improvements when he recognized that his vintage 1950's gas furnace, as well as his home's insulation, was outdated. In order to learn about heating equipment replacement options, Mr. Korn put his home through a comprehensive home energy assessment with NYSERDA's Home Performance with ENERGY STAR program. The results showed that Mr. Korn's furnace was burning at just 62% efficiency. He also discovered his home suffered from old, inefficient insulation. His contractor recommended a range of upgrades, that once completed, gave him a much warmer, more comfortable home, not to mention, the monthly savings outweighed the financing costs of the project!

## **Homeowner Concerns:**

- Cold and drafty home in the winter
- Loss of heat through the attic
- Old insulation did not meet modern day standards
- Old and inefficient gas furnace

## **Problems Uncovered:**

- 62% efficiency in the original home heating system
- Insulation was old and inefficient
- Air leakage in the unsealed attic
- No insulation in the attic

## **Improvements Completed:**

- Upgraded to 95% AFUE high-efficiency natural gas 140,000 Btu/hr furnace
- Insulated exterior walls with R-12\* cellulose insulation
- Insulated attic floor with R-17 cellulose insulation
- Insulated attic floor behind kneed walls with R-17 cellulose insulation
- Replaced 10 existing incandescent light bulbs with 10 new 15-watt fluorescent bulbs

## **The Korn Residence:**

Year & Style: 1952 Ranch on Slab  
Square Feet: 2232  
Bedrooms/Baths: 4 BR, 3 BA  
Heat Source: Natural Gas Furnace

## **Resulting Benefits:**

- ✓ Cold drafts have been eliminated
- ✓ Saved \$1,200 per year since upgraded
- ✓ Payback period of about 7½ years

\*The R-value is a measure of thermal resistance. The higher the value, the less heat conducted through the insulation



Home Performance with ENERGY STAR Contractors Used to Perform Upgrades:



**New York Energy**  
**Conservation Co., Inc.**



Energize New York  
2051 Baldwin Road, Suite 107  
Yorktown Heights, NY 10598

(914) 302-7300  
[info@energizeny.org](mailto:info@energizeny.org)  
[www.EnergizeNY.org](http://www.EnergizeNY.org)