

# Energize New York Case Study

“Energize NY was very helpful in walking me through the process and making it easy to understand. As a result, there were no surprises as to what needed to be done and when.”



## **Jim Liao - South Salem, NY**

Year & Style: 1789 Colonial

Square Feet: 3,264

Bedrooms/Baths: 2 BR, 2 BA

Heat Sources: Propane Boiler

Electric Baseboard

**Home Performance Contractor**

Healthy Home

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# Energize New York Case Study

Living in a house whose oldest section dates from 1789, Jim Liao felt there was a lot of unnecessary waste of energy and expenses. Having lent his support and expertise to help Energize NY get off the ground, Jim knew exactly where he could get help to improve the energy efficiency of his colonial. He began by selecting Healthy Home, an Energize Comfort Corps and Home Performance with ENERGY STAR program contractor. Healthy Home identified his 18<sup>th</sup> century colonial's unique problems through a comprehensive home energy assessment. To his surprise, the assessment showed that the older section of the house was more efficient than the addition he built in 2001. Jim chose to air seal and insulate his home from top to bottom. This measure would block cold outside air from being drawn into the house around the sill and basement, and heated air from escaping through the attic and roof. Jim is very pleased with his home upgrades and could not be happier with the results. His home is now wasting much less energy and his heating costs have dropped significantly too.

## **Homeowner Concerns:**

- Eliminating avoidable energy costs
- Do savings justify the cost of improvements?
- Reducing carbon footprint

## **Problems Uncovered:**

- Insufficient exterior wall insulation
- Air leakage though ceiling into attic, and through the roof
- Heat loss through basement crawlspace perimeter

## **Improvements Completed:**

- Air sealed house to reduce air leakage from 3437 CFM50 to 2319 CFM50 (33%)
- Insulated exterior walls with R-12\* cellulose insulation
- Insulated crawlspace with R-21 high density foam insulation
- Insulated side attic with R-39 cellulose insulation

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

## **The Liao Residence:**

Year & Style: 1789 Colonial

Square Feet: 3,264

Bedrooms/Baths: 2 BR, 2 BA

Heat Sources: Propane Boiler, Electric Baseboard

## **Resulting Benefits:**

- ✓ Considerable savings on energy costs
- ✓ Reduced energy waste
- ✓ Increased home comfort



Home Performance with ENERGY STAR Contractor Used to Perform Upgrades:



**Healthy Home**  
Energy & Consulting, 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)