

Energize New York Case Study

“We had considered building a greenhouse for several years, but the heating costs were a huge stumbling block. The energy efficiency upgrades have reduced our oil usage enough to cover the greenhouse use and still reduce our monthly heating bills.”



Virginia Maybank - Bedford Hills, NY

Year & Style: 1810 Colonial

Square Feet: 3,860

Bedrooms/Baths: 5 BR, 4 BA

Heat Source: Oil Boiler

Home Performance Contractor

BrightHome Energy Solutions

Fuel Oil Savings: 10%*

*New greenhouse offsets a significant portion of energy savings

Get your home energy assessment today!
Visit us at: www.EnergizeNY.org or call (914) 302-7300

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Virginia Maybank first considered home energy efficiency upgrades when she learned that the savings could more than offset the energy used to heat a new greenhouse. She selected BrightHome Energy Solutions from the Energize Comfort Corps to complete her comprehensive home energy assessment. BrightHome's report showed how insulation and air sealing would significantly reduce the amount of wasted energy in her home. After electing to insulate and air seal the entire house, Virginia was able to build her new greenhouse and still see a reduction in her home heating oil bills. The net result meant bankable energy savings and a more comfortable home too.

Homeowner Concerns:

- Drafty, uncomfortable rooms
- Third floor very hot in summer, very cold in winter
- Moisture problems in certain rooms
- High fuel oil bills

Problems Uncovered:

- Rim joists needed insulation
- Exterior walls had no insulation
- Heat escaping through attic

Improvements Completed:

- Air sealed house to reduce overall air leakage of heated area from 7695 CFM50 to 6010 CFM50
- Insulated exterior walls with R-12* dense pack cellulose insulation
- Insulated rim joists with R-15 high density foam insulation
- Insulated basement ceiling with R-38 fiberglass & foam board insulation
- Insulated attic knee wall floor with R-46 cellulose insulation
- Insulated attic hatch with R-12 polyisocyanurate insulation
- Insulated attic knee wall with R-12 high density foam insulation

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

The Maybank Residence:

Year & Style: 1810 Colonial
Square Feet: 3,860
Bedrooms/Baths: 5 BR, 4 BA
Heat Source: Oil Boiler

Resulting Benefits:

- ✓ Comfortable, tighter home
- ✓ Significant savings on fuel oil bills
- ✓ Drafts have been eliminated

Home Performance with ENERGY STAR Contractor Used to Perform Upgrades:



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