



This home participated in
NHSaves Home Performance with ENERGY STAR in 2018

Home Performance with ENERGY STAR is a national program sponsored by the U.S. Department of Energy and delivered by local program sponsors, including NHSaves, a collaboration of New Hampshire electric utilities working together to provide customers with information, incentives, and support to save energy, including heating energy.

February 2018: A comprehensive home energy audit was completed by a Building Performance Institute certified contractor.

November 2018: ALL measures recommended in the February energy audit report were completed by a specialized contractor and a quality assurance walk-through was conducted by NHSaves. Measures included:

- **44% improvement in building envelope tightness**, resulting in reduced drafts and heat loss, while staying within the home's safe "building tightness limit."
- **Rigid and spray foam installed throughout basement** and below floor of master bedroom, resulting in reduced heat loss and warmer floor surfaces.
- **Cellulose insulation added to both attics**, with new insulation levels exceeding current energy code standards for new buildings.
- **Second floor wall and slope ceilings re-insulated** with cellulose and spray foam.

Additional energy upgrades completed by seller in 2018:

- Installed Morso **high-efficiency wood stove**, replacing inefficient open fireplace (cost: \$3,421). Not frequently used.
- Replaced all five upstairs windows (previously single-pane and in poor condition) with **new, energy efficient double-pane windows**. (cost: \$1,884 – just windows, labor provided by skilled homeowner)

Benefits

- **Lower heating bills** (600-650 gallons of propane used per year for heating, cooking, and hot water)
- **Increased comfort** (few drafts, consistent heat throughout, warm floors)



According to NHSaves, this home has "Low to Moderate" energy use, and performs better than the average NH home.

List of energy efficiency measures completed in 2018 by a certified Home Performance with ENERGY STAR contractor:

<u>Description</u>	<u>Total</u>
BASEMENT PACKAGE:	
2" Fire Rated Polyisocyanurate installed on the block walls in the basement (affixed to inside of full height cement walls)	\$1,752.12
3" closed cell spray foam installed on the walls above the block foundation (visible throughout basement)	\$800.80
3" closed cell spray foam installed on the walls in the crawl space (visible in crawlspace)	\$1,631.70
3" closed cell spray foam installed under the floor of the rear bedroom (visible in shed below bedroom)	\$983.84
BASEMENT PACKAGE TOTAL: \$5,168.46 (Package Is Included In Total)	
AIR SEALING PACKAGE:	
Air Sealing - Labor & Materials (largely invisible, lots of caulking and weather-stripping throughout home)	\$1,650.00
AIR SEALING PACKAGE TOTAL: \$1,650.00 (Package Is Included In Total)	
FIRST FLOOR ATTIC PACKAGE:	
Lighting dam, rigid fire rated material (hidden beneath insulation behind recessed lights in attic above dining room)	\$55.50
Attic, flat-open, R38 above the kitchen (visible if dining room attic is accessed via window above north sunroom)	\$214.20
FIRST FLOOR ATTIC PACKAGE TOTAL: \$269.70 (Package Is Included In Total)	
2ND FLOOR ATTIC AND WALLS PACKAGE:	
Insulation dam, min 1/2" wood w/reinforced corners installed around the entrance to the attic (visible at 2 nd story attic entry)	\$125.00
6" Urethane (R42) 2x3 opening (visible above 2 nd story attic hatch)	\$72.96
3.5" (2x4) wall insulated from outside (not visible, hidden by insulation and drywall, see image below)	\$319.68
Heat source barrier - chimney (around chimney in attic)	\$24.96
Soffit/eave air chutes (not visible, hidden by insulation and drywall, see image below)	\$355.20
Attic, flat-open, R60 (visible in attic)	\$459.80
5" closed cell spray foam on the slopes (not visible, hidden by insulation and drywall, see image below)	\$1,716.00
Install netting on the interior wall and install dense pack cellulose (not visible, see image below)	\$778.80
Apply Intumescent Paint Covering (per fire code) (visible on all exposed sprayfoam, including in basement, shed, attic)	\$28.05
3" closed cell spray foam(open access) (visible on wall of attic access stairs)	\$67.65
2ND FLOOR ATTIC AND WALLS PACKAGE TOTAL: \$3,948.10 (Package Is Included In Total)	

