

NH Home Performance with Energy Star

Home Energy Assessment for:

Prepared by:



Work Scope Details for Applied Measures

Improvement	
Furnace Ancillary Savings	<p>Work Scope: Furnace fan electric savings from insulation and air sealing measures</p> <p>Non-Energy Benefit:</p> <p>Item List: 1 Each of Furnace Fan</p>
Pipe Insulation	<p>Work Scope: Insulate the first 6' of the domestic hot water line (1/2").</p> <p>Non-Energy Benefit:</p> <p>Item List: 6 Linear Foot of Domestic hot<3/4"pipe(elastomeric wrap,1st 6')</p>
Air Sealing	<p>Work Scope: (enter brief list of air sealing scope here) Follow BPI standards for installation of measures. Seal the wall in the kitchen before insulating. Seal the windows in the living room using rope caulking. Check all windows and all doors. Air seal the attic. Initial Blower Door (CFM50): 2528 Building Tightness Limit: 815 Final Blower Door (CFM50): AH:8</p> <p>Non-Energy Benefit:</p> <p>Item List: 632 CFM of HPwES CFM Energy Savings; 8 \$50 units of Labor & Materials</p>
Walls	<p>Work Scope: Follow BPI standards for installation of measures. Install 1067 sf of 2x4 dense packed cellulose in all exterior walls. Lead safe practices must be followed. LS-W:533</p> <p>Non-Energy Benefit:</p> <p>Item List: 1067 Square Foot of 3.5" (2x4) W/Clapboard, vinyl, wood shake siding, R11; 533 \$1 units of Lead Safe Work Practice</p>
Attic	<p>Work Scope: Follow BPI standards for installation of measures. Dense pack behind the kneewalls using 466 sf of R 38 flat floored (area is 233 sf but depth is 16", so equivalent is 466 sf). Install from inside the attic if possible, or from th exterior. Dense pack the sloping ceilings using 233 sf cellulsoe. Build a dam around the attic hatch and insulate the hatch. Cover the bathroom fan with an insulated cover and add R38 cellulose over the existing insulation. The homeowner should understand that additional weight on the plaster ceiling may cause cracking. H12b:233 ADam:11 C1a:3 FDam:1 R38AFO:275</p> <p>Non-Energy Benefit:</p> <p>Item List: 3 Square Foot of 6" Urethane (R42); 466 Square Foot of Attic, flat-floored, R38; 275 Square Foot of Attic, flat-open, R38; 1 Each of Bathroom Fan dam, rigid fire rated material; 11 Square Foot of Insulation dam, min 1/2" wood w/reinforced corners; 233 Square Foot of Slope, 5.5" (2x6) R19.3</p>
Basement	<p>Work Scope: Follow BPI standards for installation of measures. Install 215 sf 3" closed cell spray foam on the above grade foundation and in the rim joists, and install 430 sf 2" closed cell spray foam on the below grade foundation. All belongings must be moved away from the walls. Seal up cracks in the ductwork in the basement using foil tape. Begin at the furnace and work outwards. SF2:430 DS:2 DCFM:100</p> <p>Non-Energy Benefit:</p> <p>Item List: 430 Square Foot of 2" closed cell spray foam (Open area, Below Grade); 215 Square Foot of 3" closed cell spray foam (Open area, Above Grade); 2 Hour of Duct Sealing per hour Labor & Materials; 100 CFM of HPwES Pressure Pan CFM Reductions</p>
Health and Safety	<p>Work Scope: Follow BPI standards for installation of measures. Intall 1 Carbon Monoxide detector on the 2nd floor. Vent the dryer outside and install a wall hood. Replace the fan vent pipe with insulated pipe. Weh:1 CO:1 FP:9</p> <p>Non-Energy Benefit:</p> <p>Item List: 9 linear foot of Flexible pipe, Exhaust Fan; 9 linear foot of Hard Pipe Exhaust Fan; 1 Item installed of Install CO Detector; 1 Item installed of Wall Exhaust Hood</p>

Contract for Energy Efficiency Work

The NH HPwES program is designed to conserve energy through residential energy improvements. Eversource is arranging for the installation of certain energy efficiency measures in the homes of qualifying customers. These services, which are detailed below, shall be performed by one or more contractors selected by Eversource. Eversource is funding these energy efficiency measures as part of its effort to promote cost-effective, efficient use of electricity and reduce the need for carbon emission fuels. Therefore, Eversource reserves the right to cancel this contract at any time prior to the beginning of work if it determines that the proposed work is not cost-effective or ineligible for program services. The energy efficiency measures listed below must be performed by Eversource approved contractors in accordance with the program's material and installation standards in order to be eligible for program incentives.

Customer contributions apply to some measures. The customer is responsible for those cost listed below as customer co-pay for the measures to be installed.

Proposed Improvement	Total Cost	Utility Rebate	Customer Co-Pay	ESTIMATED VALUES **		Customer Accepts
				Pay Back Period (years)	Customer Cost Savings (\$/year)	
Furnace Ancillary Savings	\$0.00	\$0.00	\$0.00	0.0	\$12.91	
Pipe Insulation	\$28.32	\$14.16	\$14.16	2.8	\$5.07	
Air Sealing	\$400.00	\$200.00	\$200.00	1.0	\$203.17	
Walls	\$2,538.96	\$1,269.48	\$1,269.48	2.2	\$572.65	
Attic	\$1,748.28	\$874.14	\$874.14	3.5	\$246.60	
Basement	\$2,934.35	\$1,069.49	\$1,864.86	8.1	\$230.71	
Health And Safety	\$272.45	\$0.00	\$272.45	Required*		
Program Delivery/Audit Fee	\$572.73	\$572.73	\$0.00			
Customer Co-Pay Pre-Payment			- \$100.00			

Totals \$8,495.09 \$4,000.00 \$4,395.09

Total Eversource Rebate: \$4,000.00

Customer Co-Pay Balance: \$4,395.09

**Minimum Health & Safety measures are required on all homes receiving any proposed insulation or air sealing improvements.*

***Fuel costs used to determine estimated values are based on prices monitored by the NH Office of Energy and Planning (www.nh.gov/oep)*



Customers participating in this program should be aware that the weatherization services provided are intended to reduce air and heat losses from the building and that decreases in air or heat flow may result in changes to how the building responds to certain interior or exterior atmospheric conditions, including those relating to wind and snow. By participating in this program you agree that the sponsoring Utility and its contractors are not liable for discovering or correcting structural or atmospheric issues in conjunction with the services provided under this program. Customers with concerns about their buildings are encouraged to consult with a structural engineer or other professional as necessary.

Customer acknowledgement (signature required)

SAMPLE



1. CONTRACT EXPIRATION

This contract offer is valid for 45 days from 09/13/2016

2. CUSTOMER'S RESPONSIBILITY TO REMOVE OBJECTS

The customer will prepare his/her home for the work by removing any objects that could be in the contractor's way.

3. CUSTOMER'S RESPONSIBILITY TO ARRANGE INSTALLATION

The customer agrees to cooperate with Eversource and its contractors in arranging a mutually convenient installation schedule. The customer further agrees to obtain any required permission from their association for any work being done in shared ownership property developments.

4. CUSTOMER'S RESPONSIBILITY TO ALLOW INSPECTIONS

The customer agrees to allow Eversource or its representative to visit the customer's home to verify installation or to conduct one or more post-installation inspections of the work listed in this contract.

5. CUSTOMER'S PAYMENT

The customer agrees to pay the Eversource contractor a deposit of 50% of the estimated Customer Cost Share at the time the customer signs this agreement and to pay the balance at the time of the contractor's post installation inspection when all work listed on this contract is complete. Notwithstanding the foregoing, if the customer signing this agreement is a non-occupant owner, the customer must pay the entire Customer Cost Share prior to any work commences.

6. DEFECTS IN WORK

Customer should notify the contractor listed below as soon as possible if there are any problems with the quality of the work or materials used. Eversource (through a contractor) agrees to cure any defects in labor or materials within two years from the original installation date, at no additional cost to the customer.

7. DISCLAIMER OF WARRANTIES/LIMITATION OF LIABILITY

Eversource offers no warranties other than those written in this contract. Eversource disclaims any and all implied warranties to the full extent permitted by law.

Eversource excludes any warranty of merchant ability and also excludes any implied warranty of fitness except to the extent of its own negligence. Eversource is not responsible for any damages or losses, or any incidental, special, or consequential damage.

8. ENTIRE AGREEMENT

This document constitutes the entire agreement between the customer and Eversource and all previous representations and proposals, either written or oral, are hereby annulled and superseded. No modification shall be binding on the customer or Eversource unless it is in writing and signed by both parties.

9. EFFECTIVE DATE

This contract is effective after the customer has signed below and the contractor has been approved by the appropriate Eversource representative. All pricing and rebate offers are valid only within the current calendar year. Any project not completed within the current calendar year may be revised by Eversource to reflect the most current program pricing and offers.

NOTICE TO BUYER:

1. Do not sign this agreement if any of the space intended for the agreed terms to the extent of then available information are left blank.

2. You are entitled to a copy of this agreement at the time you sign it.

3. You may at any time pay the full balance due under this agreement, and in so doing you may be entitled to receive a partial rebate of any finance and insurance charges.

4. The seller has no right to enter unlawfully your premises or commit any breach of the peace to repossess goods purchased under this agreement. YOU, THE CUSTOMER, may cancel this transaction at any time prior to midnight of the third business day after the date of this transaction. See the attached Notice of Cancellation form for an explanation of this right.

In the event of defects or other problems, contact your Contract Coordinator:

Customer Name

Contract Coordinator Name

Address Where Work Will Be Performed

Contract Coordinator Address

Customer Phone Number

Contract Coordinator Phone

Customer Account #

Contract Coordinator Signature & Date

As the owner of the property listed above, I certify that (check one, cross out if not applicable):

- ☐ The tenant owns the refrigerator.
- ☐ I live in the building and own the refrigerator.
- ☐ I will pay the co-payment and agree to keep the refrigerator in the unit for at least 3 years.

In any case, where I am to be the owner of the new refrigerator, I agree that if I sell the building and/or unit, I will transfer ownership of the new refrigerator to the new owner.

Customer/Building Owner Name

Customer/Building Owner Signature & Date



Energy Summary Report

Your Energy Summary report addresses the recommendations for improving the comfort, safety and energy efficiency of your home. Use this report as a guide for deciding which recommended measures you want to have performed. Your contractor will be able to answer any questions you may have; can explain the specific benefits of each improvement, and can help you prioritize which improvements to undertake first. Please note that the estimated savings values listed in this report are based on program values established for typical New Hampshire homes and may not reflect the actual savings realized for your home.

Your contractor is ready to implement these recommendations promptly, and shall guarantee materials and workmanship for two years from the date of installation.

Proposed Improvement	Customer Co-Pay	ESTIMATED VALUES**		
		Energy Savings	Pay Back Period (years)	Customer Cost Savings (\$/year)
Furnace Ancillary Savings	\$0.00	84 kWh Electric	0.0	\$12.91
Pipe Insulation	\$14.16	33 kWh Electric	2.8	\$5.07
Air Sealing	\$200.00	81 Gal Propane	1.0	\$203.17
Walls	\$1,269.48	227 Gal Propane	2.2	\$572.65
Attic	\$874.14	98 Gal Propane	3.5	\$246.60
Basement	\$1,864.86	92 Gal Propane	8.1	\$230.71
Health and Safety*	\$272.45		N/A	\$0.00
Program Delivery/Audit Fee	\$0.00	N/A	N/A	N/A
Customer Co-Pay Pre-Payment	- \$100.00	N/A	N/A	N/A

By implementing the above recommended improvements, you are estimated to save annually;

117 kWh of Electricity
497 Gallon of Propane

6372.4 lbs of CO2 Emissions***

This package of improvements is estimated to save you \$1,271.11 on your energy bills and pay for itself in 3.5 years.

**Minimum Health & Safety measures are required on all homes receiving any proposed insulation or air sealing improvements.*

***Fuel costs used to determine estimated values are based on prices monitored by the NH Office of Energy and Planning (www.nh.gov/oep)*

****CO2 reduction estimates are based on values provided by the Energy Information Administration web site (www.eia.doe.gov)*



Resources

The mission of NHSaves is to advance the efficient use of energy, while caring for the environment and promoting economic development in New Hampshire. NHSaves means you and your Utility, working together to save energy, reduce cost, and protect the environment.

For more information on energy efficiency and additional programs available to you, we would recommend you check out the following websites:

www.energystar.gov

The official web site for the US Environmental Protection Agency and the US Department of Energy's Energy Star program

www.nh.gov/oep

NH Office of Energy and Planning is NH's official government web site

www.eere.energy.gov

The official web site for the US Department of Energy, Energy Efficiency and Renewable Energy

www.eia.doe.gov/kids

The official web site for the US Energy Information Administration Energy Kids page

www.nhsaves.com

For information on other Utility funded energy efficiency programs in NH

www.epa.gov/watersense

The official web site for the US Environmental Protection Agency for assisting America to save water and protect the environment

Certificate of Completion

Customer Name

Eversource Contract Coordinator Name

Address Where Work Will Be Performed

Eversource Contract Coordinator Address

Customer Phone Number

Contract Coordinator Phone

Customer Account #

Contract Coordinator Signature & Date

Date Inspected

Inspector's Name

Measure Type	Completed	Not Completed
Furnace Ancillary Savings		
Pipe Insulation		
Air Sealing		
Walls		
Attic		
Basement		
Health and Safety		

Combustion Appliance Final Testing				
	Heating System		Water Heater	
CO tests	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
Draft tests	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
Spillage tests	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
Ambient CO in living space			<input type="checkbox"/> Pass	<input type="checkbox"/> Fail
Ambient CO in CAZ			<input type="checkbox"/> Pass	<input type="checkbox"/> Fail

Certificate of Completion

Please Note: The inspection of the house is only for the purpose of finding out whether the Contractor completed the work.

Customer should not rely on the inspection for assurance that the contractor's work necessarily complies with all laws and standards related to safety.

It was the Contractor's sole responsibility to assure that the measures were installed properly and safely. In addition, this Post-Installation Inspection does not replace inspections by licensed inspectors where required by state or local law. It is the duty of the Customer to obtain such required inspections.

I have inspected the house at the above address and determined that the Contractor completed the energy conservation measures listed above.

Contract Coordinator Signature

Date

Customer Authorization of Completed Work

I confirm that the measures listed above have been completed to my satisfaction. I have received a copy of the Certificate of Completion and hereby authorize the release of any final payments to the Contractor. I understand that this Authorization of Completed Work does not in any manner void any warranties provided to me by the Contractor.

Customer Signature

Date