

MASS SAVE HOME ENERGY ASSESSMENT REPORT



MassSave.com/Save

Assessment Date: 12/28/2022

Site ID: 800852

Prepared for: Janice E Robbins

118 Mattapoissett-neck Road Mattaposet, MA 02739

Prepared By: Revise

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Summary of Our Findings

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Recommended Improvement	Estimated Cost*	Incentive/Rebate	Your Estimated Cost After Incentive/Rebate*	ESTIMATED ANNUAL ENERGY SAVINGS*	Estimated Payback In Years
PERFORM AIR SEALING AT ESTIMATED 62.5 CFM50 PER HO	\$1,132	\$1,132		\$180	Immediate
8 HOURS DUCT SEALING	\$697	\$697		\$65	Immediate
DAMMING	\$377	\$283	\$94	\$10	9.4
ATTIC FLOOR OPEN BLOW CELLULOSE 7"	\$762	\$572	\$190	\$20	9.5
ATTIC FLOOR OPEN BLOW CELLULOSE 6"	\$1,703	\$1,277	\$426	\$50	8.5
HATCH: THERMAL BARRIER POLYISO 2 INCH (ATTIC)	\$47	\$36	\$11	\$19	0.6
DOOR: THERMAL BARRIER POLYISO 2" (ATTIC)	\$91	\$68	\$23	\$19	1.2
ATTIC STAIR COVER THERMAL BARRIER	\$277	\$277		\$75	Immediate
PROPAVENT 2' OR 4'	\$289	\$217	\$72		0.0
VENT BATH FAN TO ROOF OR OTHER	\$147	\$110	\$37		0.0
OKAY - WALLS					
INSULATE RIM JOIST WITH 6.25" FIBERGLASS BATTING	\$186	\$139	\$47	\$25	1.9
CLOTHES WASHER - OKAY					
AIR SOURCE HEAT PUMP - WHOLE HOME		\$10,000	-\$10,000		0.0
OKAY - WATER HEATER					
	\$5,708	\$14,808	-\$9,100	\$463	-19.7

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Additional savings available You could qualify for no-cost insulation

If your annual household income falls within the ranges listed below you may qualify for an enhanced offer on energy-saving improvements.

Upgrade	Enhanced Offer
Insulation	100% off approved insulation

Income qualification guidelines

Number of Household Members	Annual household income 2022–2023 Heating Season
1	\$42,412 – \$56,548
2	\$55,462 – \$73,948
3	\$68,512 – \$91,348
4	\$81,562 – \$108,748
5	\$94,611 – \$126,147
6	\$107,661 – \$143,547
7	\$110,108 – \$146,809
8	\$112,555 – \$150,072
9	\$115,002 – \$153,335
10	\$117,449 – \$156,597

For households larger than 10 people, contact Mass Save® for income qualification guidelines. If your annual household income is at or below the applicable income range noted above, you may qualify for increased energy efficiency incentives, such as 100% off approved insulation, an energy-saving heating system, and other no-cost improvements. Visit MassSave.com/IncomeEligible to learn how to contact your local CAP agency who will deliver these services on behalf of your Mass Save sponsor.

Inquire now: Please visit MassSave.ApplytoSave.com/ to start the easy, no-cost income verification process or call **1-888-714-3990**

WE ARE MASS SAVE®:



Learn more at MassSave.com/Qualify

Documentation and information provided for income verification will not be disclosed to the program administrators. Only income qualification results will be shared with program administrators to provide the eligible efficiency services at the enhanced incentive levels.



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What We Recommend

Please note: If your household income falls within a certain range and you reside in a home with 1 to 4 units, you may be eligible for enhanced incentives (above and beyond what's listed in the following chart). Visit MassSave.com/Qualify to learn more.

Recommended Improvement	Estimated Cost*	Incentive/ Rebate	Your Estimated Cost After Incentive/Rebate*	ESTIMATED ANNUAL ENERGY SAVINGS*	Estimated Payback In Years
Improving the Building Envelope					
PERFORM AIR SEALING AT ESTIMATED 62.5 CFM50 PER HO	\$1,132	\$1,132	\$0	\$180	0
8 HOURS DUCT SEALING	\$697	\$697	\$0	\$65	0
DAMMING	\$377	\$283	\$94	\$10	9
ATTIC FLOOR OPEN BLOW CELLULOSE 7"	\$762	\$572	\$190	\$20	10
ATTIC FLOOR OPEN BLOW CELLULOSE 6"	\$1,703	\$1,277	\$426	\$50	9
INSTALL 2" THERMAL BARRIER POLYISO ON KNEEWALL	\$221	\$166	\$55	\$5	11
HATCH: THERMAL BARRIER POLYISO 2 INCH (ATTIC)	\$47	\$36	\$11	\$19	1
DOOR: THERMAL BARRIER POLYISO 2" (ATTIC)	\$91	\$68	\$23	\$19	1
ATTIC STAIR COVER THERMAL BARRIER	\$277	\$277	\$0	\$75	0
INSULATE RIM JOIST WITH 6.25" FIBERGLASS BATting	\$186	\$139	\$47	\$25	2



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Additional Notes:

*Please note: costs for heating, cooling, and water heating equipment vary depending on type of equipment, size, configuration, removal of old equipment, and contractor pricing. The National Renewable Energy Laboratory's National Residential Efficiency Measures Database provides general, ballpark pricing at nrel.gov/ap/retrofits. Call one or more plumbers and/or heating and cooling contractors of your choice for quotes that are customized to your home and to ensure that they hold all applicable licenses and insurance required by the state. Please note that do-it-yourself installations are not eligible for any Mass Save rebates.

Procedures used to make these estimates are consistent with criteria established by the United States Department of Energy for residential Home Energy Assessments. The costs and incentives detailed above for insulation and air sealing improvements have been estimated by your Energy Specialist under the program for which you may be eligible. The intent of this table is to illustrate the upgrades which, based on your Home Energy Assessment, will yield the greatest results, and to show the impact that program incentives can have on the improvements you choose to make.

Payback years is the number of years estimated for a package of improvements to pay for itself in energy savings. Payback estimates do not account for future price fluctuations, nor do they incorporate benefits of possible tax credits. A cost-effective upgrade will typically pay for itself within its expected lifetime. Payback estimates are only calculated for packages, because the Home Energy Assessment is based upon a Whole House Approach, and upgrades often work in conjunction with one another to maximize your savings. Remember that payback estimates are indeed estimates. The packages shown in this report reflect the expertise and experience of your Energy Specialist, and you are encouraged to select the recommendations that will best benefit your home. You are advised not to select recommendations or packages solely on the basis of estimated payback, but also to consider failing equipment, health and safety risks, and other non-energy factors such as comfort.

0% HEAT Loan

You may be eligible to apply for 0% financing on certain recommended improvements through the Mass Save HEAT Loan which offers 0% financing up to \$25,000 with repayment terms as long as 7 years.

Eligible improvements may include:

- Attic, Wall, and Basement Insulation
- High-Efficiency Heating and Cooling Equipment
- High-Efficiency Water Heaters

To learn more, please visit MassSave.com/HEATLoan.



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Next Steps

Now that you completed your Home Energy Assessment, you're ready to take the next steps in making your home more energy efficient.

Air Sealing and Insulation:

1. If there are any physical barriers or safety issues impeding air sealing and/or insulation, please refer to the documentation provided by your Home Performance Contractor. You will need to repair pre-weatherization barriers before we can issue you a contract for air sealing and/or insulation. Barriers may include knob and tube wiring, combustion safety issues, and/or dryer venting. You may be eligible for a Pre-Weatherization Barrier Incentive to help you address the above conditions.
2. Sign your weatherization contract and mail it to the address listed on the contract.
3. Contact your Home Performance Contractor to schedule air sealing and/or insulation.

Questions? For more information, contact your Home Performance Contractor.

High-Efficiency Heating, Cooling, Water Heating, and Controls:

1. Consult one or more licensed plumbers or contractors of your choice for quotes.
2. Select a contractor and schedule equipment installation.
3. Once the installation is complete, submit rebate applications either by mail or online. Rebate applications provide step-by-step instructions detailing how to participate. To apply for a rebate online, go to MassSave.com/Rebates
4. Visit MassSave.com/heatingandcooling to learn more. Call **1-800-232-0672** with rebate-related questions.

Interested in 0% financing Visit

MassSave.com/HEATLoan. prior to completing the work to see how you can apply. Our HEAT Loan Program can help you finance eligible improvements over time.



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Your Recommended Improvements

HOME AIR LEAKAGE SEALING

Every home has holes and gaps around the plumbing and electrical access points, chimney chases, exhaust fans, etc., which create higher heating and cooling costs. The amount of air leakage in most homes is equivalent to having a window left open all year long. Excessive and uncontrolled air leakage can do long-term damage by causing condensation in walls and ceilings, mildew, and also impact your home's durability.

Air sealing is the process of closing these gaps and holes to increase the effectiveness of your home's air-boundary. Air sealing is the most cost-effective first step of all weatherization upgrades. Through targeted spray foam, properly applied to your home's air-boundary, air sealing supports the effectiveness of insulation at the thermal-boundary. Air sealing is provided at no cost to you.



Your home would benefit from (12) working hours of targeted air sealing of drafts occurring at the thermal boundary between the heated and unheated areas.

DUCT SEALING

Duct sealing is the process of sealing the gaps and leakage points in your home's duct distribution system, to help increase the flow of air into your heated and/or cooled rooms and decrease energy loss. Seal any openings in air duct system that allow heated air (or conditioned air) into unheated areas of your home (attic/garage/crawlspace). This can be professionally done with mastics, caulks and other sealants.

Your Energy Specialist determined that your home would benefit from (1) working hours of professional duct sealing services.



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Your Recommended Improvements - Continued

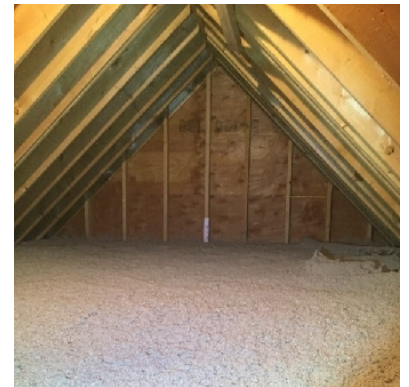
INSULATION DAMMING

Areas in your attic need to have insulation dams installed to contain the blown-in insulation. Have an additional 12" layer of R-38 unfaced fiberglass batts added to (154) square feet for damming purposes.



ATTIC FLAT

Your attic area is currently insulated with 8" fiberglass batt to achieve an effective heat resistance value of R-30. Have an additional 7" layer of R-26 Class I Cellulose added to (421) square feet of 1 attic space.



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Your Recommended Improvements - Continued

ATTIC FLAT

Your attic area is currently insulated with 9" cellulose to achieve an effective heat resistance value of R-25. Have an additional 6" layer of R-22 Class I Cellulose added to (990) square feet of 1 attic space.



KNEEWALLS

The kneewall area is currently insulated with 4" fiberglass batt to achieve an effective heat resistance value of R-13. Install rigid board at R-10 or greater with the required fire rating to (46) square feet of kneewall area.

ATTIC HATCH

Insulate (1) attic hatch with rigid board at R-10 or greater with the required fire rating.

ATTIC DOOR

Insulate the back of the door leading to the attic with 2" rigid board insulation.



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Your Recommended Improvements - Continued

ATTIC ACCESS

Install an easily moved, rigid foam insulating cover over the attic access stairs. The cover should be weatherstripped to restrict air leakage.



VENTILATION CHUTES

Install ventilation chutes in (70) rafter bays to maintain proper air flow.



BATH EXHAUST VENT

Moisture from your [1] bathroom exhaust fan(s) is not properly ventilated out of your home. This can lead to mold mildew or roof degradation problems within the attic. Install an insulated exhaust hose to a flapper vent to exhaust existing bathroom fan(s). Fan should be vented through the roof or an acceptable alternative.

WALL INSULATION

Your exterior walls are insulated with R-13 fiberglass batt. Additional insulation would not be cost-effective.



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Your Recommended Improvements - Continued

BASEMENT SILL

Install (69) linear feet of R-19 unfaced fiberglass insulation to the perimeter of the basement ceiling at the house sill. Fasten in place so the insulation contacts the sill and the floor above.



CLOTHES WASHER

Your existing clothes washer meets today's standards for efficiency.

AIR SOURCE HEAT PUMP

Air source heat pumps provide dependable heating and cooling by transferring heat rather than generating it. In the hot summer months, heat is moved from inside to outside, while in winter the process runs in reverse, extracting energy from outside air and converting it into heat for your home. Learn more at MassSave.com/HeatPump.

Installed costs vary, contact a participating contractor from the Mass Save Heat Pump Installer Network for a detailed quote.

Mass Save Rebate*: \$10,000 per home

*Heat Pumps must be used as the sole source of heating during the heating season. Whole-home verification form must be completed and signed. Weatherization recommendations made during a Home Energy Assessment must be completed prior to the installation of your heat pump.

WATER HEATER

Your existing water heater is already an energy-efficient, sealed-combustion system. Have a qualified technician clean and fine-tune every 2 years to maintain its high efficiency performance.



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Your Recommended Improvements - Continued

Saving Energy Safely

In order to ensure that you and your family have a safe, energy efficient home for years to come, visit MassSave.com/Safety to learn more about carbon monoxide, mold, and other safety-related topics.

For energy saving tips, visit MassSave.com/Tips



MassSave.com/Save

INSULATION & AIR SEALING

Mass Save Home Performance Contractors Information Form

Home Performance Contractors (HPCs) have met training and certification requirements and provided proof of insurance in order to become a participating contractor of the Mass Save Home Energy Services Program and provide Home Energy Assessments and weatherization services. Pricing for air sealing and insulation improvements is set by the Mass Save Home Energy Services Program ("the Program") and will remain the same, regardless of the contractor you use for qualified improvements. The HPC you selected may offer non-Program related recommendations for additional energy related equipment and/or services such as:

- Heating Systems
- Heat Pumps
- Solar Systems
- Roofing
- Air Conditioning
- Water Heating Systems
- Siding
- Windows, and more

PLEASE NOTE, these services are NOT associated with the Program and may require additional payment of which pricing is NOT set by Mass Save.

All pricing, contracts, or payment terms associated with non-Program work are between the customer and the HPC. You have the option of working with any licensed contractor of your choice, which does not impact the rebate eligibility for qualifying equipment. The Program does not endorse or warrant any specific contractor or any work conducted outside of the Program.

It is suggested that you solicit multiple bids for any services beyond air sealing and insulation.

By signing below, you acknowledge receiving this disclosure form. You confirm that the Home Performance Contractor conducting your Home Energy Assessment explained all the details on this form and that you have the described options, rights, and privileges within the Mass Save Home Energy Services Program.

Customer Name:	Janice E Robbins	
Customer Signature:		Date:
Home Address:	118 Mattapoisset-neck Road Mattaposet, MA 02739	
Site ID Number:	800852	

TERMS & CONDITIONS

Lead Vendor – Lead Vendors are responsible for overall management and quality control for the Program. Additionally, Lead Vendors also perform Home Energy Assessments for the Program and work with Independent Installation Contractors to complete the installation of eligible weatherization improvements. Cape Light Compact, Columbia Gas of Massachusetts, Liberty Utilities, National Grid (Cape Cod customers only), and Unitil contracted with RISE Engineering (RISE) as their Lead Vendor. Lead Vendors oversee a network of Home Performance Contractors (HPCs) and Independent Installation Contractors (IICs) that are collectively known as the Mass Save Home Energy Services (HES) Program Participating Contractors.

- Independent Installation Contractors (IICs) can complete the installation of eligible weatherization improvements, but are not eligible to complete Home Energy Assessments.
- Home Performance Contractors (HPCs) can perform Home Energy Assessments as well as any weatherization improvements you choose to undertake.

Home Performance Contractors (HPCs) – HPCs work with RISE, and Massachusetts' natural gas and electric utilities and energy efficiency service providers to develop a comprehensive package of services to customers. If you have selected a participating HPC to provide your Home Energy Assessment, that selected HPC will also provide and coordinate the installation of the recommended weatherization improvements (insulation and/or air sealing) at standardized Program prices. Participating Contractors are required to meet certain insurance levels, hold various certifications, and have signed an agreement to provide customers with a one year warranty. Participating Contractors may not distribute customer names or personal information, or use them for non-Program purposes, without the customer's permission.

Quality Control Inspections – The Program conducts random inspections of weatherization work and Home Energy Assessments for quality control purposes. These are separate inspections from any that may be required by local municipal building codes. You may request a quality control inspection by calling **1-866-527-SAVE (7283).**

There is no cost to you for the quality control inspection. In addition, customers may be contacted by a Third Party Quality Assurance Vendor, Competitive Resources (CRI), contracted by the utility or energy efficiency service provider, to provide an additional verification of program compliance.

Permits – Permit(s) may be required in order to perform the insulation and air sealing work depending upon the local codes and regulations. It is the responsibility of the contractor(s) to obtain the permit(s) if/when they are required. There should not be an extra fee to the homeowner for obtaining the permit(s) unless it is for work outside of the Program.



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