

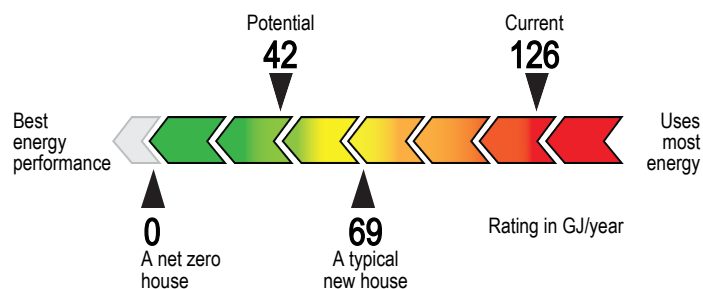
RENOVATION UPGRADE REPORT



508 Larch Place
Canmore, AB T1W 1R9



Year built: 1997



Assessment date:
March 11, 2025

Evaluated by:
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Quality assured by:
VerdaTech Energy Management
4032510683

This report identifies your home's energy savings opportunities by providing you with recommended renovation upgrades. It complements your EnerGuide label and your homeowner information sheet.

Next steps:

- 🏠 Review your customized action plan below to improve the energy efficiency of your home;
- 🏠 You may be eligible for **financial incentives** to support your energy-efficient upgrades. Please visit www.canada.ca/greener-homes-grant to view the financial incentives available.
- 🏠 Need help getting started? Go to our **resources** www.nrcan.gc.ca/kthi.

YOUR ENERGY EFFICIENCY ROADMAP

Your energy advisor has prioritized your recommended upgrades based on the potential energy savings, the life expectancy of your home components, the interactions between systems, your potential renovation plans and the costs to perform the upgrades.



1. Perform air sealing

[Save 4 GJ/year]

2. Upgrade heating system

[Save 46 GJ/year]

3. Upgrade windows

[Save 25 GJ/year]

4. Upgrade doors

[Save 4 GJ/year]

Additional recommendations on next pages



By implementing all upgrades, you are helping to fight climate change and could **reduce GHG emissions by up to 5.1 tonnes per year.**

RECOMMENDED ENERGY EFFICIENCY UPGRADES

A customized plan to improve the energy efficiency of your home is found below:



1. Perform air sealing

- ❑ Improve the airtightness of your house by 12% to achieve 7.51 air change(s) per hour at 50 pascals.

This upgrade could reduce the energy consumption of your house by 4 gigajoules per year.

Did you know?

Air leakage accounts for 25 percent of the estimated annual heat loss of your house.

Useful tips

Air sealing is one of the most cost-effective energy-saving measures you can undertake. It is typically performed before and during other upgrades to ensure optimal benefit. Air sealing can help to minimize potential moisture damage and improve comfort by reducing drafts, heat loss, dust and outdoor noise in your home.

Consult our **resources** www.nrcan.gc.ca/energy-efficiency/homes/make-your-home-more-energy-efficient/keeping-the-heat/15768 to learn more and take action.

Air leakage locations identified by your energy advisor are listed below:



- ❑ Air Sealing
- ❑ We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.
- ❑ Our decision to utilize this tool stems from its capability to integrate videos and hyperlinks, offering a more comprehensive presentation of supplementary information and reports.
- ❑ Additional Comments
- ❑ The air leakage rate measured in air changes per hour (ACH) can be found in the Home Owner Information Sheet (HOIS) report and is in the range of VERY HIGH for air leakage. Specific areas observed during the assessment that could help to reduce air leakage are:
- ❑ 1) window trim seals (weatherstripping along perimeters, or replace as needed) and closure mechanisms. Replacement of older metal sliding frame windows is recommended to help reduce air leakage. Several main floor windows were observed to be leaking at the frames. Refer also to comments on window upgrades.
- ❑ 2) door sweeps and trim (threshold and lower edge of doors).(especially side door). Seal trim where there are noticeable gaps and poor closures (especially at corners and middle of paired doors). Replacement of older doors is recommended where closure is not complete to help reduce air leakage. Refer to comments on doors.
- ❑ 3) Long term upgrades to windows and doors to improve sealing and/or reduce condensation issues.
- ❑ 4) Long term replacement of furnace with closed loop condensing unit (high efficiency).
- ❑ 5) Removal of supply air vents (4) in crawlspace for old furnace by completing closed loop supply and exhaust air piping for each individual appliance (furnace). The existing furnace relies on supply air from the crawlspace and had substantial air leakage along the floor penetrations and beside the furnace.
- ❑ 6) The fireplace chimney and supply air vent penetrations through the ceiling/roof were observed to have substantial leakage. If not used, the fireplaces could be sealed with plexiglass or other solution to reduce air leakage.
- ❑ 7) Periodically check water floor drain (Ptrap) in furnace room to add water to avoid drying out of drain with potential for sewer gas to leak back into the home under certain conditions. Adding and/or maintaining a humidifier to the furnace during retrofits can generally provide a regular water drain source to keep the Ptrap wet and sealed.

RECOMMENDED ENERGY EFFICIENCY UPGRADES - CONTINUED

- ☐ 8) Consider sealing insulation at crawlspace floor penetrations and checking air sealing in those areas as well.
- ☐ 9) Attic hatch had no weather stripping that should be added.
- ☐ 10) Kitchen exhaust fan above range was not exhausting - check and replace if needed. Bathroom fans were leaking somewhat and should have backflow prevention valves checked for proper function or possible blockages.



2. Upgrade heating system

- ☐ Install a new ENERGY STAR certified, forced-air, condensing, gas-fired furnace that has an annual fuel utilization efficiency (AFUE) of 95%.
- ☐ Install a new ENERGY STAR certified air-source heat pump that has a Heating Seasonal Performance Factor (HSPF) Region V of 8.5.

This upgrade could reduce the energy consumption of your house by 46 gigajoules per year.

Did you know?

Space heating accounts for 66 percent of the estimated annual energy use of your house.

Useful tips

Perform any planned building envelope upgrades before your heating contractor begins work since a more energy efficient building envelope may mean that a smaller heating system could be installed. The contractor should first conduct a heat loss calculation before deciding on the capacity and model of your heating system.

Your *Homeowner Information Sheet* provides important details and a reference for this calculation. Inform your heating contractor of any building envelope upgrades performed since your evaluation, or that will be undertaken since these may render certain details in your *Homeowner Information Sheet* inaccurate.

Consider purchasing a system that is ENERGY STAR certified when available. Consult Natural Resources Canada's website at www.nrcan.gc.ca/energy/products/categories/heating/13740 for information on choosing a heating system.

Your energy advisor's comments



Heating Systems (General)

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

Our decision to utilize this tool stems from its capability to integrate videos and hyperlinks, offering a more comprehensive presentation of supplementary information and reports.

Additional Comments - Existing Heating System

The existing furnace is a moderate efficiency induced draft furnace (80% efficient). Consider short term replacement of the existing furnace with a high efficiency condensing furnace or boiler (e.g. 96% efficient), and possibly the addition of a cold climate air source heat pump if feasible and cost effective for the specific property.

The alternate modelled upgrade is for a supplemental air source heat pump with a new high efficiency condensing natural gas furnace as backup and low temperature operation (this may or may not be cost effective for a new heat pump installation but would likely be more cost effective than a backup electrical heating system). If the Home Owner would like to install a cold climate air source heat pump, request a quotation from two or more mechanical contractors for a proposed heat pump system and request information on the electrical energy usage as well. Although natural gas usage would be lower with a heat pump, electricity usage would be higher and could be more expensive overall depending on many factors and rates.

RECOMMENDED ENERGY EFFICIENCY UPGRADES - CONTINUED

The homeowner may also want to investigate and evaluate the feasibility of ground water source heat pump systems based on potential access to nearby groundwater wells.



3. Upgrade windows

- ❑ Replace 7 windows with ENERGY STAR certified models.

This upgrade could reduce the energy consumption of your house by 25 gigajoules per year.

Did you know?

Windows account for 34 percent of the estimated annual heat loss of your house.

Useful tips

Replacing windows can improve aesthetics, reduce noise from outside, reduce maintenance, increase property resale value, improve comfort and reduce condensation during cold weather. ENERGY STAR certified windows, patio doors and skylights are among the most energy efficient in the marketplace.

Consult our **resources** www.nrcan.gc.ca/energy-efficiency/homes/make-your-home-more-energy-efficient/keeping-the-heat/15768 to learn more and take action.

Your energy advisor's comments



Windows

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

Our decision to utilize this tool stems from its capability to integrate videos and hyperlinks, offering a more comprehensive presentation of supplementary information and reports.

Additional Comments

Replacing old, damaged or leaky windows with new ENERGY STAR certified products can help you save energy, improve comfort and reduce noise. Compare new windows with the U-factor/Energy Rating (ER), NRCan reference number or a Certified Products Directory (CPD) number.

Several windows in the home have older metal frames with condensation apparent from colder months. Operable windows that are older and in need of replacement should be replaced with triple pane glazed windows with a lowE (low emissivity) coating. South aspects can be optimized with Solar Heat Gain Coefficients (SHGC) for more or less passive heat gain depending on preferences and shading. Consult a window specialist contractor to optimize window designs for each aspect. About half the existing windows are older clear glass only with no lowE coating.

Note that the new triple pane windows modeled in the energy savings report are assumed to have lower Solar Heat Gain Coefficients (SHGC) than the existing windows and therefore less passive heat gain in the winter. This results in lower overall energy savings in the report whereas actual energy savings could be higher with lower heat loss and optimizing SHGC for higher passive heat gain in the winter. Shading of south windows can be important in the summer to reduce unwanted passive solar heat gain. Pay close attention to the U-value (ideally less than 1.05 W/m²K and Energy Star rating of new windows).



4. Upgrade doors

- ❑ Replace 3 doors with ENERGY STAR certified models.

RECOMMENDED ENERGY EFFICIENCY UPGRADES - CONTINUED

This upgrade could reduce the energy consumption of your house by 4 gigajoules per year.

Did you know?

Doors account for 5 percent of the estimated annual heat loss of your house.

Useful tips

ENERGY STAR certified doors are among the most energy efficient in the marketplace. If there is a window in the door, consider units with low-E coatings and inert gas fills.

Consult our **resources** www.nrcan.gc.ca/energy-efficiency/homes/make-your-home-more-energy-efficient/keeping-the-heat/15768 to learn more and take action.

Your energy advisor's comments



Doors

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

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Additional Comments

Replacing old, damaged or leaky hinged doors with new ENERGY STAR certified products can help you save energy and improve comfort. Consider long term replacement value of doors and energy savings, particularly if the door is damaged or warped and cannot be sealed effectively to prevent leakage. The existing doors with hollow wood frames are least energy efficient and should be replaced with higher insulation doors.



5. Insulate attic

- ❑ Increase the insulation value of your attic (Ceiling01) by RSI 3.99 (R-22.7).

This upgrade could reduce the energy consumption of your house by 5 gigajoules per year.

Did you know?

Ceilings account for 9 percent of the estimated annual heat loss of your house.

Useful tips

The following are some of the items to consider before insulating the attic:

- ❑ Ensure the roof does not leak.
- ❑ Ensure electrical work is up-to-date and that all desired ceiling fixtures have been installed.
- ❑ Look for opportunities to air seal before insulation is added.
- ❑ Ensure adequate attic venting is installed and that it is not blocked by insulation.
- ❑ Ensure all exhaust fans and ducts penetrating the attic are sealed and vented to the outside.

Consult our **resources** www.nrcan.gc.ca/energy-efficiency/homes/make-your-home-more-energy-efficient/keeping-the-heat/15768 to learn more and take action.

Your energy advisor's comments

RECOMMENDED ENERGY EFFICIENCY UPGRADES - CONTINUED

Ceilings

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

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Additional Comments

Refer to the HOIS data sheet for existing insulation R values (your attic was rated approx. R-27) and request quotes from contractors to increase insulation levels to achieve a total Rvalue of R-50 or more for long term energy savings.



6. Insulate foundation

- ❑ Increase the insulation value of 100% of your crawl space walls (Foundation - 1) by RSI 1.40 (R-7.9).

This upgrade could reduce the energy consumption of your house by 1 gigajoules per year.

Did you know?

Your foundation accounts for 7 percent of the estimated annual heat loss of your house.

Useful tips

Assess the status of your foundation for water leaks, cracks and flooding and remediate these issues before beginning any insulation job. Foundations can be insulated from the interior, exterior or a combination of both depending on accessibility and the complexity of the building. Refer to your energy advisor's comments to determine which would be best suited for your foundation.

Consult our **resources** www.nrcan.gc.ca/energy-efficiency/homes/make-your-home-more-energy-efficient/keeping-the-heat/15768 to learn more and take action.

Your energy advisor's comments



Crawl Space Insulation – Walls and Headers

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

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Additional Comments

The existing crawlspace walls have rigid foam insulation on the interior. Coordinate upgrades to the exterior foundation walls above and below grade if possible with upgrades to the exterior main walls. This would also help reduce heat losses and air leakage rates as well with removal of the vents and upgrades to the heating system..

Crawl Space Insulation – Ceiling

Additional Comments

The existing floor above the crawlspace was observed to have fibre glass batt insulation present. The thickness was difficult to measure with the floor coverings present, but was estimated to be about 8 inches thick or approximately R28 insulation value. Coordinate upgrades to the crawlspace, heating system and foundation walls to optimize energy efficiency savings and costs.



7. Insulate main walls

- ❑ Increase the insulation value of your main walls (Main floor) by RSI 3.34 (R-18.9).

This upgrade could reduce the energy consumption of your house by 15 gigajoules per year.

Did you know?

Main walls account for 20 percent of the estimated annual heat loss of your house.

Useful tips

Main walls can be insulated from the interior, exterior or both using a variety of materials and methods. Refer to your energy advisor's comments to determine the best approach.

Consult our **resources** www.nrcan.gc.ca/energy-efficiency/homes/make-your-home-more-energy-efficient/keeping-the-heat/15768 to learn more and take action.

Your energy advisor's comments



Main Walls

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

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Additional Comments

The modeled exterior wall upgrade would be to add significantly more insulation (e.g. R20) to the existing 2x4 walls (e.g. R12) in coordination with upgrades to external siding and foundation walls.



8. Upgrade ventilation system

- ❑ Install a heat recovery ventilator or energy recovery ventilator certified by the Home Ventilating Institute (HVI) or that is ENERGY STAR certified.

This upgrade could increase the energy consumption of your house by 3 gigajoules per year.

Did you know?

Upgrading your ventilation system can improve indoor air quality and comfort. A heat recovery ventilator (HRV) or energy recovery ventilator (ERV) saves energy compared to conventional ventilation systems by recovering heat from stale indoor air as it is exhausted. An HRV/ERV simultaneously exhausts stale indoor air and brings in outdoor air by passing the two separate airflows through a heat exchanger.

Useful tips

When purchasing an HRV or ERV, choose a model that is certified by the Heating and Ventilating Institute (HVI) and consider models that have a high efficiency motor to help reduce electrical consumption. Ensure that the HRV or ERV system is designed, installed and balanced by a technician certified by a recognized mechanical organization. Select equipment tailored to your needs.

RECOMMENDED ENERGY EFFICIENCY UPGRADES - CONTINUED

Keep contaminants away from the fresh air intake when your HRV/ERV is operating. For example, avoid putting trash next to the air intake, do not use pesticides and herbicides nearby and keep your barbecue downwind. If you must generate pollutants near the air intake temporarily, turn the HRV/ERV off until you complete the activity.

Consult Natural Resources Canada's publication about Heat Recovery Ventilators at www.nrcan.gc.ca/energy/products/categories/cooling-ventilating/ventilating/hrv/16197.

Your energy advisor's comments



Ventilation Systems

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

Our decision to utilize this tool stems from its capability to integrate videos and hyperlinks, offering a more comprehensive presentation of supplementary information and reports.

Additional Comments

Consider evaluating the benefits and costs of a Heat Recovery Ventilator (HRV) mechanical ventilation system. Although heating costs can be lowered, the additional electric energy to run the fans increases electricity usage. The overall energy savings in the upgrade savings report is often negative, but the benefits of fresh air ventilation are also important, especially when the air leakage rates are low. Evaluate this further with coordination of the overall planned upgrades for the house.



9. Upgrade hot water system

- ❑ Install a new electric, tank-type water heater with an energy factor (EF) of 0.82.

This upgrade could increase the energy consumption of your house by 0 gigajoules per year.

Did you know?

Water heating accounts for 14 percent of the estimated annual energy use of your house.

Useful tips

The efficiency of fuel-fired water heating equipment is expressed as the energy factor (EF), uniform energy factor (UEF) or thermal efficiency. The higher the number, the more efficient the water heater. The efficiency of storage-tank electric water heating equipment is expressed in watts of standby loss, where the lower the number, the more efficient the water heater.

Look for an energy-efficient model and ensure it is properly sized for your needs. Use manufacturers' sizing charts available from your contractor or retailer. See Natural Resources Canada's website at www.nrcan.gc.ca/energy/products/categories/water-heaters/13735 for more information.

Your energy advisor's comments



Hot Water System

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

Our decision to utilize this tool stems from its capability to integrate videos and hyperlinks, offering a more comprehensive presentation of supplementary information and reports.

Additional Comments

Consider long term replacement of the existing electric hot water tank when needed to due to enf of service life, or possibly replace with a heat pump hot water heater (HPHWH) where feasible.



10. Add a renewable energy system

- ❑ Install a photovoltaic system designed to deliver 4867.2 kilowatt-hours per year.

This upgrade could reduce the energy consumption of your house by 18 gigajoules per year.

Did you know?

Solar and wind energy can be used for electricity generation.

Useful tips

Installing renewable energy systems will offset some or potentially all of the purchased energy required to operate your home while decreasing the greenhouse gas emissions generated.

Your energy advisor's comments



Renewable Energy Systems

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

Our decision to utilize this tool stems from its capability to integrate videos and hyperlinks, offering a more comprehensive presentation of supplementary information and reports.

Additional Comments

As part of the modeled potential upgrades for this home, a generalized solar PV system with 5 kW additional capacity was included for reference purposes with estimated energy savings not including potential future \$ savings due to electricity rate increases. It is recommended to obtain an independent assessment from a professional solar system consultant and/or vendor/installation contractor for a customized feasibility assessment and to obtain quotations from more than one vendor.



Additional energy advisor comments

Canada Greener Homes Initiative

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

Our decision to utilize this tool stems from its capability to integrate videos and hyperlinks, offering a more comprehensive presentation of supplementary information and reports.

ELIGIBILITY INFORMATION

For full details on eligibility requirements, eligible measures, potential grants and/or loans for the recommended measures, please consult the Canada Greener Homes website at canada.ca/greener-homes-initiative.

Based on primary occupancy requirements, the property would not meet the owner occupancy needed, CEIP (Alberta)

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

RECOMMENDED ENERGY EFFICIENCY UPGRADES - CONTINUED

Based on building type requirements, the premanufactured building at this property would likely not meet the criteria. Consider contacting the CEIP program to confirm details.

How to apply:

- Check if your municipality is participating (<https://ceip.abmunis.ca/residential/locations/>)
- Review your municipality's terms and conditions for eligibility
- Submit a pre-qualification form
- Once pre-qualified, complete your EnerGuide Evaluation and chose your upgrades. Select a qualified contractor from the directory. Complete and submit project application form.
- Once project is approved, sign the CEIP Agreement and Project Agreement
- Instal your Upgrades
- Complete your post-project EnerGuide evaluation

For more detailed information, visit: <https://ceip.abmunis.ca/>

Additional Services available from the VT Group of Companies

We have included detailed comments and explanations in the accompanying auxiliary report. For a deeper understanding, please consult this document.

Our decision to utilize this tool stems from its capability to integrate videos and hyperlinks, offering a more comprehensive presentation of supplementary information and reports.

Hiring a contractor is required for several of the home retrofits and strongly recommended for the others. The contractor is responsible for complying with local bylaws and relevant provincial, territorial and federal legislation and guidelines.

NRCan does not endorse the services of any contractor, nor any specific product, and accepts no liability in the selection of materials, products, contractors or performance of workmanship. Before undertaking retrofits, find out about the appropriate products, safety and installation techniques, and ensure that all retrofits meet local building codes and by-laws.

Additional Comments

If there was no access to attic or vaulted ceilings, default insulation values were used for the purposes of the report based on the age and construction of the home. Generally it is very costly to add insulation to sealed or vaulted areas of the roof.

NOTES:

- 🏠 Energy use reductions are calculated with each upgrade taken on its own. Combinations of upgrades may produce slightly different results.
- 🏠 If negative savings are shown, please see your energy advisor's comments for an explanation.

ENERGY EFFICIENCY FORECAST

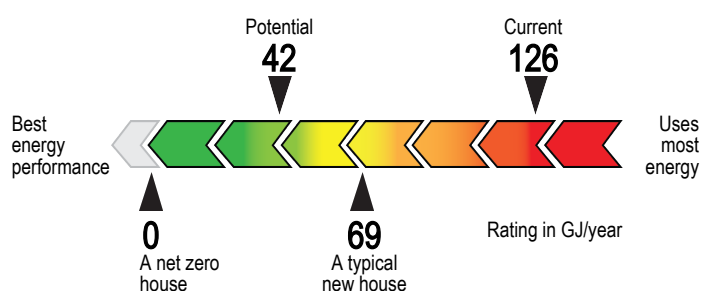
YOUR HOME'S ENERGY POTENTIAL



By implementing the recommended upgrades, you will not only see an improvement in your EnerGuide Rating but you might also reduce greenhouse gas (GHG) emissions.

Note that the energy consumption indicated on your utility bills may be higher or lower than your EnerGuide Rating. This is because the EnerGuide Rating is based on standard assumptions regarding how many people live in the home and how it is operated. Refer to your *Homeowner Information Sheet* for details on the EnerGuide Rating System standard operating conditions.

EnerGuide Rating



A **gigajoule (GJ)** is a unit of energy that can represent all energy sources found in Canadian homes such as electricity, fossil fuels and wood.

A **typical new house** is a reference point for comparing your rating to that of a similar house built to current energy efficiency requirements.

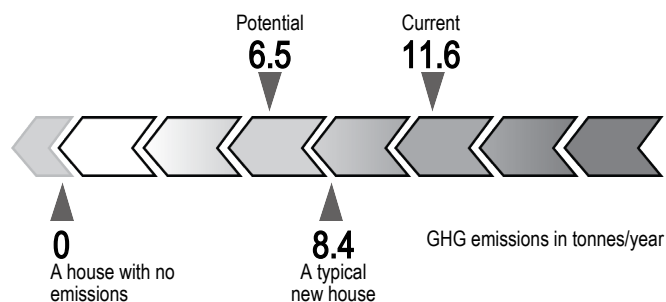
Rated energy intensity

Potential: 0.58 GJ/m²/year

Current : 1.23 GJ/m²/year

The **Rated energy intensity** is an estimate of your home's annual energy use relative to its size. It allows you to compare the energy used by homes of different sizes on a "per square metre" basis.

Rated greenhouse gas (GHG) emissions

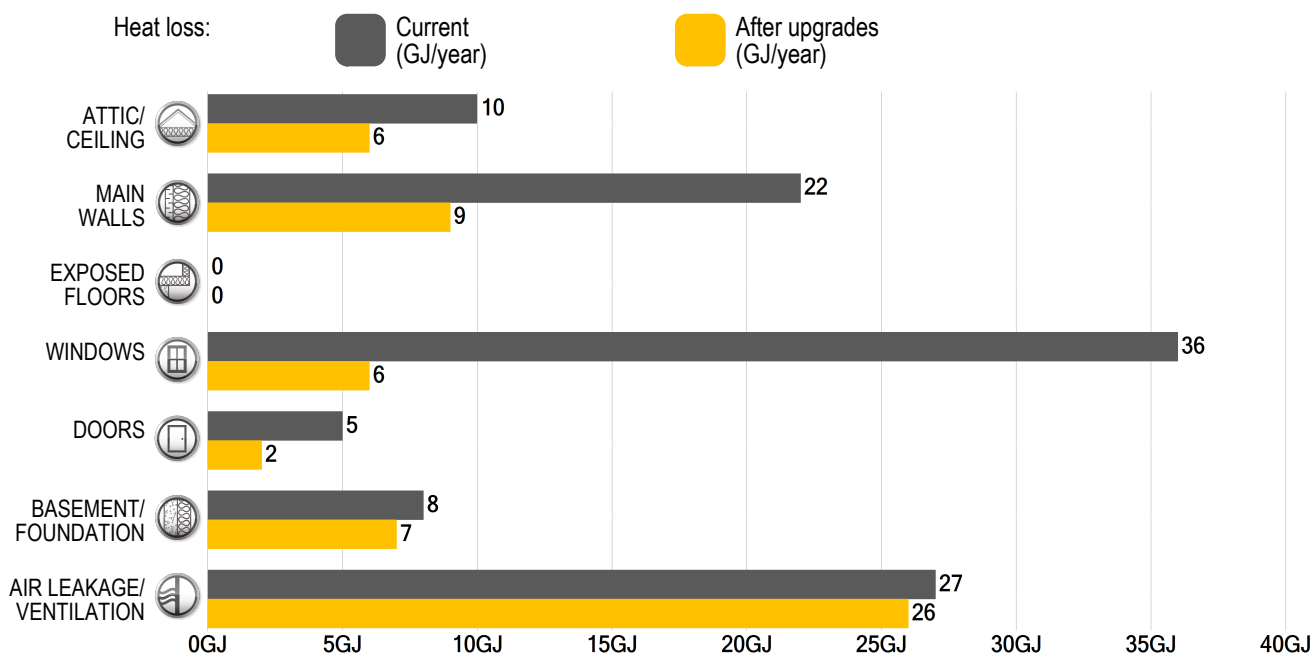


Every time we use energy from fossil fuels such as oil and gas, we produce **greenhouse gas (GHG) emissions** that contribute to climate change. We can reduce these emissions by making homes more energy efficient and lowering energy use.

ENERGY EFFICIENCY FORECAST - CONTINUED

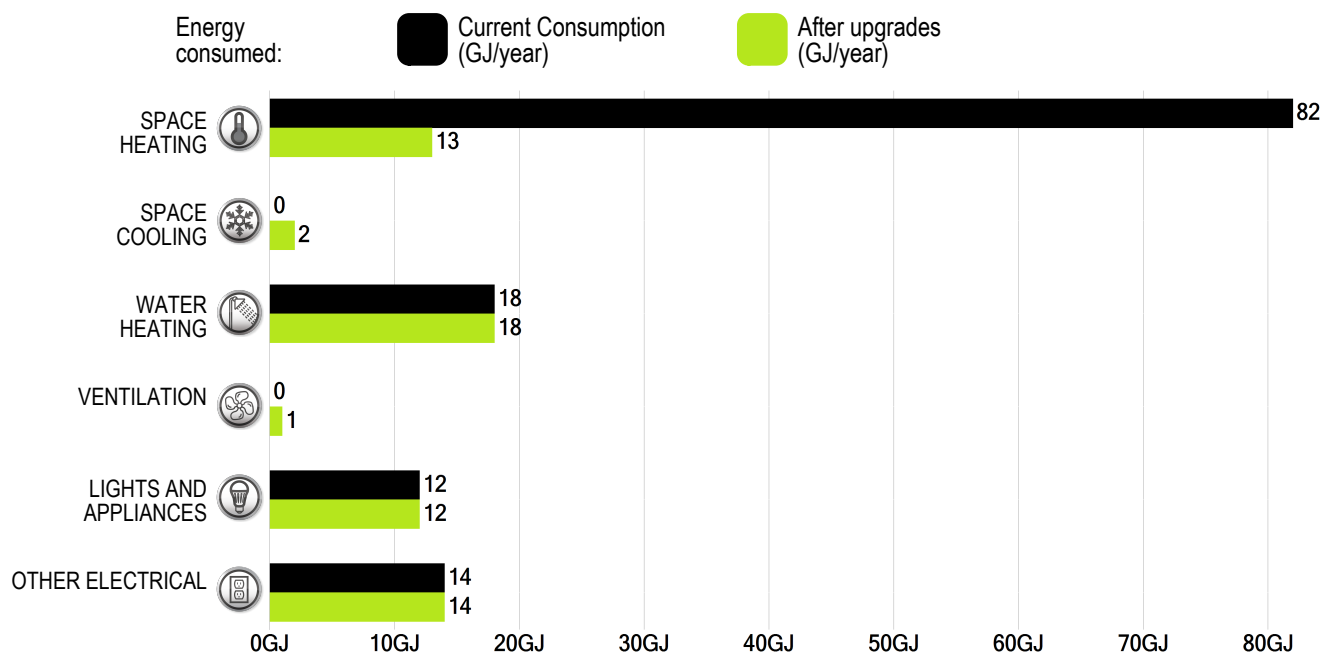
BEFORE AND AFTER: Estimated heat loss through the building envelope*

This bar chart shows where heat is lost from your house. The dark bars show the areas where you are currently losing heat. The longer the bar, the more heat you are losing. The light bars show the estimated heat loss if you were to complete all the recommended upgrades as outlined.



BEFORE AND AFTER: Estimated energy use*

This bar chart shows the potential for improving the energy performance of your house. The dark bars show your current rated consumption. The longer the bar, the more energy you are using. The light bars show the rated energy consumption if you were to complete all the recommended upgrades as outlined.



*Calculated using standard operating conditions. Refer to your *Homeowner Information Sheet* for more information.

HEALTH AND SAFETY INFORMATION

If your energy advisor has identified a potential health or safety concern related to insufficient outdoor air, risk of combustion fumes being drawn into the home or the presence of vermiculite, a warning has been included in your *Homeowner Information Sheet*. However, energy advisors are not required to have expertise in health and safety matters, and it is the sole responsibility of the homeowner to consult a qualified professional to determine potential hazards before undertaking any upgrades or renovations. Visit Natural Resources Canada's webpage *Health and safety considerations for energy-efficient renovations*.

Humidity control

A relative humidity level of between 30 and 55 percent is recommended for optimal health and comfort. For more information on assessing moisture levels in your house, visit the Canada Mortgage and Housing Corporation's website.

Radon

Radon is a naturally occurring radioactive gas that is colourless, odourless and tasteless. It is formed from the radioactive decay of uranium, a natural material found in some soil, rock and groundwater. When radon is released into the outdoor air, it gets diluted to low concentrations and is not a concern. However, in enclosed spaces like houses, it can sometimes accumulate to high levels, which can pose a risk to both your or your family's health. For more information, visit Health Canada's website.

Asbestos and vermiculite insulation

Vermiculite insulation installed in homes may contain asbestos. This can cause health risks if inhaled. If you find vermiculite insulation during renovations, avoid disturbing it. If you suspect the presence of asbestos in your home and plan to undertake renovations (including insulation or air sealing work) that may cause the vermiculite insulation or asbestos to be disturbed, contact professionals who are qualified to handle asbestos before you proceed with the renovations.

Combustion gases

The use of fuel-burning heating equipment can inadvertently lead to hazardous combustion gases being drawn into your home. Always consult a qualified heating and ventilation contractor when servicing or replacing this type of equipment and ensure you have a functioning carbon monoxide detector. Refer to the publication entitled *Combustion gases in your home: What you should know about combustion spillage* on Natural Resources Canada's website to learn more about combustion spillage.

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Natural Resources Canada does not endorse or make any representation of warranty as to the accuracy or applicability of the energy advisor's comments with respect to your particular home.

Natural Resources Canada does not endorse the services of any contractor, nor any specific product, and accepts no liability in the selection of materials, products, contractors nor the performance of workmanship.

The rating and potential savings in this report are based on the conditions of your home at the time of the evaluation and the use of EnerGuide standard operating conditions.

ADDITIONAL INFORMATION - CONTINUED

Along with the upgrade recommendations, here are some simple actions you can take to be more comfortable, save money and reduce GHG emissions:

ENERGY-SAVING TIPS

- ☐ Install and set-up programmable electronic thermostats to reduce the heating temperature at night and when you are away. For each degree of setback, you can save up to 2 percent on your heating bills.
- ☐ When replacing appliances, electronics and office equipment, look for ENERGY STAR® certified products. ENERGY STAR certified products are among the most efficient and use up to less than half as much energy in standby mode (i.e. when they are turned "off") than non-certified products. You can also look for the EnerGuide product label to help you select the most energy efficient model. For more information, go to energystar.gc.ca.
- ☐ Replace your light bulbs with ENERGY STAR certified ones, such as light emitting diodes (LEDs). They last longer and use less electricity.
- ☐ Insulate the first two metres of the hot and cold water pipes starting from the water heater with insulating foam sleeves or pipe wrap insulation. By doing so, you will save on your water heating costs and reduce your water consumption. For a fuel-fired water heater, maintain a 15 cm (6 in.) clearance between the water piping insulation and the vent pipe.
- ☐ If you use a block heater for your car, use a timer. Set the timer to turn on one to two hours before you plan to start your vehicle.
- ☐ Replace your kitchen and bathroom exhaust fans with ENERGY STAR certified exhaust fans vented to the outside.
- ☐ Install a timer on your bathroom exhaust fans so that the fans are not left running for extended periods of time.
- ☐ Install low-flow shower heads (rated at 7.6 litres per minute or less) and faucet aerators.
- ☐ Fix leaky faucets and outside hose bibs.
- ☐ Plug your entertainment systems and office equipment into power bars that can be easily turned off when equipment is not in use.

NOTES:

Questions about this report?

Please contact your energy advisor.