Your EnerGuide® rating and this report are based on data collected and, where necessary, presumed, from your home evaluation. Rating calculations are made using standard operating conditions.

Rating: 201 gigajoules per year (GJ/year)
Heated floor area: 263.5 m² (2836.0 ft²)
Rated energy intensity: 0.76 GJ/m²/year
Evaluated by: Carson Dunlop
File number: 4UXD00500
Data collected: December 1, 2017
Year built: 1967

HOUSE CHARACTERISTICS
For building envelope and mechanical system details, please refer to the Homeowner Information Sheet.

House type: two storeys, single detached
Number of windows: 20
Number of doors: 2
Airtightness: 6.1418 air changes per hour at 50 pascals

Main energy source: natural gas
Heating system: natural gas furnace with pilot
Cooling system: central air conditioner
Hot water system: natural gas storage tank

HOW YOUR HOUSE COMPARES

EnerGuide Rating¹

<table>
<thead>
<tr>
<th>Potential rating²</th>
<th>Current rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>138 GJ/year</td>
<td>201 GJ/year</td>
</tr>
</tbody>
</table>

COMPARATOR

112 GJ/year
A typical new house: this house if built to building code energy requirements.

Rated energy intensity

<table>
<thead>
<tr>
<th>Potential</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.52 GJ/m³/year</td>
<td>0.76 GJ/m³/year</td>
</tr>
</tbody>
</table>

Rated greenhouse gas (GHG) emissions³

<table>
<thead>
<tr>
<th>Potential GHGs³</th>
<th>Current GHGs</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5 tonnes/year</td>
<td>9.7 tonnes/year</td>
</tr>
</tbody>
</table>

NOTES:
1. The rating is expressed in gigajoules per year. One gigajoule is roughly equal to the energy contained in 30 L of gas in a car’s gas tank.
2. Potential figures show where the house would rate if all recommended upgrades were implemented.
3. Refer to the Homeowner Information Sheet glossary for calculation details.

*EnerGuide is an official mark of Natural Resources Canada
ENERGY EFFICIENCY ACTION ROADMAP
The route to making your home more energy efficient

In developing your prioritized list of recommended upgrades, your energy advisor has used the house-as-a-system concept (described later in this report) and has considered potential renovation plans, the financial considerations of each upgrade, and the extent that each upgrade contributes to energy savings. This is your customized roadmap for improving your home’s energy performance and is based on your household operating conditions, if provided. If you have questions or concerns about these recommendations, please contact your energy advisor or your service organization.

Operating conditions
Your EnerGuide Rating was calculated using standard operating conditions, including average climate patterns, a standard set of occupants (a family of two adults and one child), standard thermostat settings for heating and cooling, and standard use rates for such things as lighting, appliances and hot water. This allows for the comparison of houses where the house itself is rated independent of occupant behaviour.

Your Estimated Household Energy Use was calculated using your household operating conditions, the information that you provided to your energy advisor about your home’s actual number of occupants and their energy use patterns. This provides an annual energy use estimate that is customized to your particular household.
# RECOMMENDED UPGRADES AND RESULTS

<table>
<thead>
<tr>
<th>RECOMMENDED ENERGY EFFICIENCY UPGRADES</th>
<th>RATING REDUCTIONS(^A) (GJ/year)</th>
<th>ESTIMATED HOUSEHOLD SAVINGS(^A) (GJ/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total reductions for all recommended upgrades</td>
<td>63</td>
<td>64</td>
</tr>
<tr>
<td>1. Upgrade Heating System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Install a new ENERGY STAR certified, forced-air, condensing, gas-fired furnace that has an annual fuel utilization efficiency (AFUE) of 96 %.</td>
<td>49</td>
<td>50</td>
</tr>
<tr>
<td>2. Air Seal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Improve the airtightness of your home by 10% to achieve an air changes per hour rate of 5.53 at 50 pascals.</td>
<td>7(^B)</td>
<td>8(^B)</td>
</tr>
<tr>
<td>3. Insulate Attics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Ceiling01: Increase the insulation value of your attic by RSI 6.95 / R 39.4.</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>4. Upgrade Windows</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replace 13 window(s)/skylight(s) with ENERGY STAR certified models for zone 2.</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>• Replace 1 window(s)/skylight(s) with units that are more energy efficient.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Upgrade Cooling System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Install a new ENERGY STAR certified air conditioner.</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**TABLE NOTES:**  
A. The individual rating reductions and estimated household savings are calculated with upgrade measures undertaken in isolation. Combinations of upgrades may produce slightly different results.  
B. Because of the very house-specific results associated with air sealing, there is a broader error range for the estimated impact of this upgrade.

## RECOMMENDED UPGRADE DETAILS

**Your energy advisor’s comments**

Your energy advisor has provided additional comments, elaborating on your specific recommended upgrades. These are provided at the end of each upgrade section. The energy advisor and service organization are responsible for the accuracy of these comments and should be contacted if clarification is needed. The Government of 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.
1. Upgrade Heating System

Upgrading your heating system lowers your energy bills and, depending on the particular system upgrade, can also improve your comfort, control over how and when your home is heated and reduce risks from combustion spillage by using sealed combustion equipment. Space heating accounts for 73 percent of your home’s estimated annual energy use.

**Recommendation:**
Install a new ENERGY STAR certified, forced-air, condensing, gas-fired furnace that has an annual fuel utilization efficiency (AFUE) of 96%.

- Hire a reputable contractor who is qualified in heating system design and installation, and recognized by an industry organization, such as the Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI) to install your forced-air, condensing gas-fired furnace. Do not perform this work yourself.
- Choose an ENERGY STAR certified model with the recommended annual fuel utilization efficiency (AFUE) rating. Models with variable heat output and direct current (DC) fan motors will further reduce fuel and electrical consumption. Your contractor should also consider whether there is a need for the replacement, sealing or balancing of the ductwork that distributes the warm air throughout your home.
- Perform any planned building envelope upgrades before your heating contractor begins work because a more energy efficient building envelope may mean that a smaller heating system will comfortably heat your home. Before deciding on the capacity and model of the furnace, your contractor should first conduct a heat loss/heat gain calculation for your home. Give your contractor a copy of the *Homeowner Information Sheet* from your EnerGuide home evaluation to provide important details and a reference for the calculation.

**NOTE:** Inform your heating contractor of any building envelope upgrades that you undertake following your EnerGuide home evaluation since those upgrades may render certain details in your *Homeowner Information Sheet* inaccurate.

- To ensure maximum performance and efficiency, discuss system maintenance and the possibility of a service agreement with your contractor. Cleaning or replacing filters is an example of important regular furnace maintenance.
- Consider installing a programmable thermostat that is properly matched to your heating system for optimum savings, further reducing energy consumption by approximately 2 percent for every 1 °C set-back.


Search a comprehensive Furnaces Database at [energystar.gov/productfinder/product/certified-furnaces/results](energystar.gov/productfinder/product/certified-furnaces/results) for ENERGY STAR qualified makes, models and efficiency information.

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2. Air Seal

Air sealing is one of the most cost-effective energy-saving measures you can undertake. It is typically performed before other upgrades to ensure optimal benefit from all the work being done to your home. Air sealing can improve your comfort by reducing drafts and heat loss, minimizing potential moisture damage to your home and reducing the transfer of both dust and noise from outdoors, all the while helping to lower your heating bills. Your home’s air leakage accounts for 27 percent of your annual heat loss.

**Recommendation:**
Improve the airtightness of your home by 10% to achieve an air changes per hour rate of 5.53 at 50 pascals.

- To achieve the full benefits of air-sealing, speak to your energy advisor or a reputable air sealing company before you begin. The blower door test performed during your home energy evaluation along with comments from your energy advisor will help you identify some air leakage sites in your home and can provide a starting point for improving the airtightness of your home.
- You may be able to perform some or all of the work yourself, but you should have an air sealing or ventilation professional ensure all ventilation, and health and safety concerns are addressed before you begin.
- When you have completed your air sealing upgrades, have an energy advisor or air sealing company perform a second blower door test. This will evaluate your efforts and alert you to any potential ventilation issues in your home.
Common and accessible air leakage locations such as electrical outlets and ceiling fixtures, wire and pipe penetrations, window and door frames, attic hatches, ducts, and baseboards can be sealed with caulk, foam sealant, appropriate types of tape or gaskets.

Typically more difficult to seal air leakage sites, such as those found at foundation headers (rim joist), wall to ceiling junctions and chimney penetrations, may require more aggressive air sealing techniques with barrier materials such as polystyrene plastic foam board insulation, spray foam and non-flammable products (e.g. sheet metal).

Consult Keeping the Heat In to learn more and take action.

nrcan.gc.ca/sites/www.nrcan.gc.ca/files/energy/pdf/housing/Chapter4_e.pdf

3. Insulate Attics

Adding insulation in your attic improves your comfort by keeping your house warmer during the winter and cooler during the summer. Higher insulation levels in your attic helps lower your heating bills and, if you have air conditioning, adding insulation may also lower your cooling bills. Improvements to your home’s insulation can allow for subsequent smaller sizing of new heating and cooling systems when undertaking those upgrades. In total, your home’s attics and ceilings account for 9 percent of your annual heat loss.

Recommendation:
Ceiling01: Increase the insulation value of your attic by RSI 6.95 / R 39.4.

Before work begins, speak to your energy advisor, an insulation contractor or a construction expert to understand the details of your renovation. You can do this work yourself, or hire a reputable insulation contractor. However, only perform this work yourself if you have carefully researched all of the necessary technical and health and safety considerations. This includes checking for damaged/frayed wiring and concealed sources of heat such as light fixtures. All heat sources must be protected from contact with insulation and other combustibles, or be removed entirely.

Always look for opportunities to improve air sealing before or during ceiling insulation upgrades.

Consider any electrical or plumbing upgrades before insulating your ceiling.

Discuss the complete process of the renovation with your contractor or other expert, ensuring there is a clear plan so that nothing is left incomplete. For example, all new holes and ceiling finishes should be fully repaired or restored and any mess from the work suitably cleaned up.

To achieve the recommended thermal resistance (RSI/R) value, batt and loose-fill insulation are common examples of insulation types that can be applied between or on top of the ceiling joists or trusses. You can also speak to an expert about spray foam insulation options that may be appropriate.

Your home’s attic can typically be accessed through an interior ceiling hatch or a gable-end access. Before insulating the area, have an expert inspect for structural problems and the condition of the roof framing, sheathing and finish. Also, check the soffit and fascia for signs of moisture problems such as leaks, stains, mould, flaking or rot.

Ensure the air barrier at the ceiling line is airtight to minimize heat loss and the formation of condensation in the attic over the winter. Be sure that all openings, gaps and penetrations (such as around plumbing stacks, chimneys, light fixtures, fan housings) are air sealed.

Ensure that adequate attic venting is installed and that it is not blocked by the insulation (e.g. soffit, gable and ridge vents).

Weatherstripping should be installed around the attic hatch or door, using hooks and eye bolts or a latch to hold the hatch firmly closed.

Consult Keeping the Heat In to learn more and take action.

nrcan.gc.ca/sites/www.nrcan.gc.ca/files/energy/pdf/housing/Chapter5_e.pdf

4. Upgrade Windows
Upgrading your windows improves your comfort by creating more consistent temperatures within the rooms that have upgraded windows. This upgrade also reduces your heating and cooling bills (if applicable), and may provide reductions in outdoor noise. Replacing your windows can also reduce or eliminate condensation on the inside of the glazing and frames. Of your home’s total annual heat loss, your windows account for 20 percent.

**Recommendation:**
Replace 13 window(s)/skylight(s) with ENERGY STAR certified models for zone 2.
Replace 1 window(s)/skylight(s) with units that are more energy efficient.

- Before work begins, speak to your energy advisor, a windows contractor or a construction expert to understand the details of your renovation. Replacing windows, skylights or patio doors is best done by a trained professional, but you may choose to do this work yourself. However, only perform this work yourself if you have carefully researched all of the necessary technical, health and safety considerations.

- Install the recommended ENERGY STAR certified units matched to your climate zone in order to maximize all the benefits of new windows, patio doors and skylights.

- For optimum savings and energy efficiency, consider units with features such as low-E coatings, inert gas fills, triple glazing, internal-shading devices and insulated edge spacers and frames that can reduce surface condensation and summer overheating.

- Once renovations are finished, have an energy advisor perform a post-retrofit evaluation and blower door test to ensure your home’s airtightness has been maintained or improved. If not installed correctly, new units can lose heat through air leakage and allow for rain penetration.


Search Natural Resource Canada’s Windows Database for ENERGY STAR windows at

and the Skylight Database for ENERGY STAR skylights at

**Your energy advisor’s comments**

### 5. Upgrade Cooling System

Upgrading your home cooling system can lower your energy bills while improving comfort through the reduction of indoor humidity levels. Depending on the particular system upgrade, a new cooling system can also improve your control over how and when your home is cooled. Space cooling accounts for 2 percent of your home’s estimated annual energy use.

**Recommendation:**
Install a new ENERGY STAR certified air conditioner.

- Hire a reputable contractor that is qualified in air conditioning system design and installation, and recognized by an industry organization, such as the Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI) to perform this installation. If your contractor recommends an air source heat pump for your air conditioning system, choose a model that is ENERGY STAR certified.

- Perform any planned building envelope upgrades before your cooling contractor begins work because a more energy efficient building envelope may mean that a smaller system will comfortably cool your home. Before deciding on the capacity and model of your air conditioning system, your contractor should first conduct a heat loss/heat gain calculation for your home. Give your contractor a copy of the *Homeowner Information Sheet* from your EnerGuide home evaluation to provide important details and a reference for the calculation.

NOTE: Inform your cooling contractor of any building envelope upgrades that you undertake following your EnerGuide home evaluation since those upgrades may render certain details in your *Homeowner Information Sheet* inaccurate.
Your contractor should not recommend a system that exceeds your home’s required capacity for an air conditioning system. Oversized systems will cool the house too quickly while not removing moisture from the air which can result in occupant discomfort and moisture problems.

If you have installed or are installing ductwork, ask your contractor to check the ductwork for proper sizing and sufficient airflow as these two elements have a large impact on the efficiency of air conditioning systems. If you don’t have ductwork, a ductless mini-split heat pump system may be an appropriate solution. With either type of system, ensure that your home has reached sufficient levels of air tightness to optimize the air conditioning system’s effectiveness and efficiency.

To ensure maximum performance and efficiency, discuss system maintenance and the possibility of a service agreement with your contractor. Cleaning or replacing air filters, verifying the coolant charge and cleaning coils are examples of important regular air conditioner maintenance.

Consult Natural Resources Canada’s Air Conditioning Your Home at www.nrcan.gc.ca/energy/publications/efficiency/residential/air-conditioning/6051 to learn more and take action.

Search a comprehensive Air Conditioners Database at energystar.gov/productfinder/product/certified-light-commercial-hvac/results for ENERGY STAR qualified makes, models and efficiency information.

Your energy advisor’s comments

ADDITIONAL COMMENTS
BEFORE AND AFTER: HEAT LOSS THROUGH THE BUILDING ENVELOPE

This bar chart shows where heat is lost from your home, calculated using your household operating conditions. The dark bars show the areas where you are losing heat now. The longer the bar, the more heat you are losing. The light bars show the estimated heat loss if you were to complete all your recommended upgrades as outlined.

BEFORE AND AFTER: ESTIMATED ENERGY USE

The bar chart below shows the potential for improving the energy performance of your home, calculated using your household operating conditions. The grey bars show your current estimated consumption. The longer the bar, the more energy you are using. The blue bars show your home’s estimated energy consumption if you were to complete all your recommended upgrades as outlined.

Figures may not add up due to rounding.
OPERATING CONDITIONS

The EnerGuide Rating System uses two different sets of operational information: standard operating conditions and your household operating conditions. Your EnerGuide Rating was calculated using standard operating conditions, including a standard number of occupants and assumed energy use patterns, along with your home’s characteristics and mechanical systems. The standard operating conditions ensure that the house is rated independent of the energy choices of the occupants living in it. This in turn enables a comparison of rated energy performance with other houses that receive EnerGuide Ratings.

Your Estimated Household Energy Use, as seen in YOUR ENERGY EFFICIENCY ACTION ROADMAP, was calculated using household operating conditions. This is the information that you provided to your energy advisor about your home’s actual number of occupants and their energy use patterns. Your Estimated Household Energy Use thus provides an annual energy use estimate that is customized to your particular household.

The following tables show the values used for each set of conditions.

<table>
<thead>
<tr>
<th>Standard Operating Conditions</th>
<th>Your Household Operating Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>For comparing your home to other homes</td>
<td>For understanding and taking action on your home</td>
</tr>
<tr>
<td>• Same for all rated homes</td>
<td>• Specific to your home</td>
</tr>
<tr>
<td>• Used for comparing homes</td>
<td>• Used for recommended upgrades</td>
</tr>
<tr>
<td>• Used for the EnerGuide Rating and label</td>
<td>• Used for your estimated annual energy consumption</td>
</tr>
<tr>
<td>• Used for your rated annual energy consumption</td>
<td>• Provided by you to your energy advisor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of occupants:</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appliance load:</td>
<td>6.3 kWh per day</td>
</tr>
<tr>
<td>Lighting load:</td>
<td>2.6 kWh per day</td>
</tr>
<tr>
<td>Other electric:</td>
<td>9.7 kWh per day</td>
</tr>
<tr>
<td>Daytime heating setpoint:</td>
<td>21°C</td>
</tr>
<tr>
<td>Nighttime heating setpoint:</td>
<td>18°C</td>
</tr>
<tr>
<td>Cooling setpoint:</td>
<td>25°C</td>
</tr>
<tr>
<td>Number of cooling months:</td>
<td>6</td>
</tr>
<tr>
<td>Hot water load:</td>
<td>188.75 L per day at 55°C</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<td>Cooling setpoint:</td>
<td>25°C</td>
</tr>
<tr>
<td>Number of cooling months:</td>
<td>Full Season</td>
</tr>
<tr>
<td>Hot water load:</td>
<td>188.75 L per day at 55°C</td>
</tr>
</tbody>
</table>

Utility bills

Your home’s annual energy use, as reflected on your utility bills, is not likely to exactly match either your EnerGuide Rating or your Estimated Household Energy Use due to normal fluctuations in your household’s energy use and changes in yearly weather patterns. In addition, there is a group of significant home energy uses, such as a pool or hot tub, which are not included in the calculations. These items are not common to most houses and are excluded from the calculations to enable better comparisons of the rated energy performance between homes. If your house has one or more of these refer to your Homeowner Information Sheet to learn more about the estimated energy use of these items.
House-as-a-system concept

Your house operates as a system. All the elements of a house, the building envelope, mechanical systems, indoor and outdoor environment and occupant activities, affect each other. Their interactions must be considered to ensure optimal performance and comfort. For example, reducing the air leakage of your home (air sealing) may require increasing ventilation to prevent moisture build-up and ensure proper indoor air quality. Reducing heat loss through the building envelope reduces your home’s heating requirements. A smaller heating system may then be sufficient. Your energy advisor applied the house-as-a-system concept when developing your recommended upgrades.

For more information about this concept and how it relates to your house, refer to the Natural Resources Canada publication *Keeping the Heat In* available at [nrcan.gc.ca/energy/efficiency/housing/home-improvements/15768](http://nrcan.gc.ca/energy/efficiency/housing/home-improvements/15768).

**IMPORTANT UPGRADE CONSIDERATIONS**

**Building codes and by-laws**

Before undertaking upgrades or renovations, ensure that all proposed renovations meet local building codes and by-laws.

**Health and safety**

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 house or the presence of vermiculite, a warning has been included in this report. However energy advisors are not required to have expertise in health and safety matters, and homeowners are solely responsible for consulting a qualified professional to determine potential hazards before undertaking any upgrades or renovations.

**Hiring a contractor**

Before hiring a contractor, find out about the appropriate products and installation techniques. Request written quotations from several contractors for comparison and obtain a written contract. The Canada Mortgage and Housing Corporation and the Canadian Home Builder’s Association publish a useful brochure on this subject, *Get it in Writing!* Visit [hiringacontractor.com](http://hiringacontractor.com) or call 1-800-668-2642 to order. The Canadian Home Builder’s Association also provides advice on hiring a contractor at [chba.ca/renovating/hiring-contractor.aspx](http://chba.ca/renovating/hiring-contractor.aspx).

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.

**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 it might be in your home and you plan to undertake renovations (including insulation or air sealing work) that may cause the vermiculite insulation to be disturbed, contact professionals who are qualified to handle asbestos before you proceed with the renovations. For a listing of qualified professionals, look in the Yellow Pages™ under ‘Asbestos Abatement & Removal’. For information on vermiculite insulation that contains asbestos, refer to the Government of Canada web page entitled "Health Risks of Asbestos" at [healthycanadians.gc.ca/environment-environnement/outdoor-air-exterieur/asbestos-amiante-eng.php](http://healthycanadians.gc.ca/environment-environnement/outdoor-air-exterieur/asbestos-amiante-eng.php).
FEDERAL GOVERNMENT RESOURCES FOR TAKING ACTION

Home energy efficiency
Natural Resources Canada publishes a variety of publications that can help you improve the energy efficiency of your home. These publications are available online at nrcan.gc.ca/energy/efficiency/housing/publications/15813 or by calling the publications order desk at 1-800-387-2000.

Health and safety
Natural Resources Canada produces a brochure entitled Planning Energy Efficiency Renovations for Your Home which includes important information on health and safety issues, as well as links to related documents from Health Canada and the Canada Mortgage and Housing Corporation. It can be accessed at nrcan.gc.ca/energy/efficiency/housing/home-improvements/5021.

Renovation publications
The Canada Mortgage and Housing Corporation publishes a large number of renovation planning fact sheets that are available at no cost. There are also some excellent in-depth publications for sale. Visit cmhc-schl.gc.ca or call 1-800-668-2642 to order material.

Humidity control
A relative humidity level of between 30 and 55 percent is recommended in your home for optimal health and comfort. Dehumidifiers can help reduce moisture levels, especially in basements where relative humidity levels are often high. If you have a humidifier or dehumidifier, ensure that it is regularly cleaned and maintained, and that the humidistat is set at an appropriate humidity level. You can use a hygrometer to measure relative humidity. The Canada Mortgage and Housing Corporation fact sheet Measuring Humidity in Your Home at publications.gc.ca/collections/collection_2011/schl-cmhc/nh18-24/NH18-24-1-2009-eng.pdf gives good advice.

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 be a risk to both your or your family’s health. For more information, visit Health Canada’s website at hc-sc.gc.ca/ewh-semt/radiation/radon/index-eng.php.

GET STARTED TODAY!

You now have information about your home and recommendations on how to improve its energy efficiency. Taking action can lead to improved comfort, better health and reduced annual utility costs. It can also contribute to reduced greenhouse gas emissions.

Some municipalities, provinces and territories, and some utilities offer energy efficiency incentive programs. For further information or links to complementary regional programs, visit nrcan.gc.ca/energy/funding/efficiency/4947.
Along with the upgrade recommendations, here are some simple actions you can take to save energy and money:

- Install and use a programmable electronic thermostat to reduce the heating temperature of your home 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 lighting, 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. For more information, go to energystar.gc.ca. You can also look for the EnerGuide product label to help you select the most energy-efficient model. For more information, visit www.nrcan.gc.ca/energy/products/energuide/label/13609.

- Replace your light bulbs with ENERGY STAR certified ones, such as compact fluorescents or light emitting diodes (LEDs). They last longer and reduce electricity consumption;

- 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 so that it only turns 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 showerheads (rated at less than 7.6 litres per minute) and faucet aerators;

- Fix leaky faucets and outside hose bibs; and

- Plug your home entertainment systems and home office equipment into power bars that can be easily turned off when equipment is not in use. Refer to the fact sheet Standby Power - When "Off" Means "On" at nrcan.gc.ca/energy/products/reference/publications/14629 for information on standby losses.