

EnerGuide for Houses

Energy Efficiency Evaluation Report

8 JOHNSTON ST
WYEVALE, Ontario

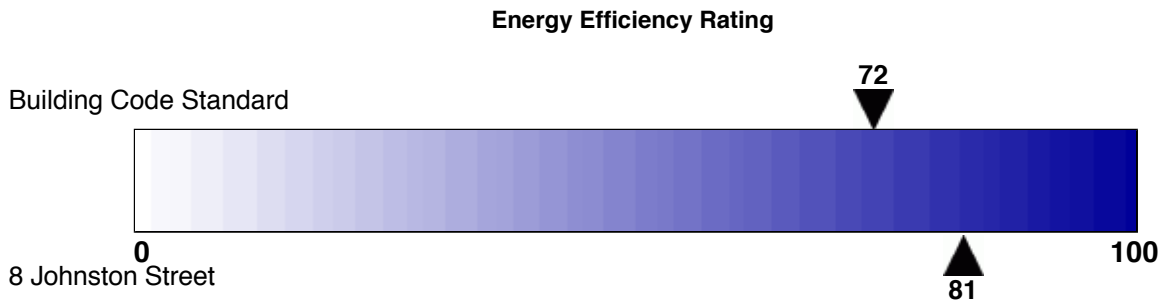
Type of House: Single detached
Year Built: 2008
Date of Evaluation: 21/11/2008



File Number: 5500N21222

Your House's Energy Efficiency Rating

The energy efficiency of your house has been assessed by a qualified energy advisor using Natural Resources Canada's (NRCan) EnerGuide for Houses procedures. **Based on this evaluation, your house has an energy efficiency rating of 81.**



A 0 on the scale represents an uncomfortable house that has major air leakage, no insulation and extremely high energy consumption. At the other end of the scale, 100 represents a house that is very well insulated, airtight, yet well ventilated, and that requires no purchased energy.

House Characteristics

Typical Rating

Old house not upgraded	0 to 50
Upgraded old house	51 to 65
Energy-efficient upgraded older house or typical new house	66 to 74
Energy-efficient new house	75 to 79
Highly energy-efficient new house	80 to 90
House requiring little or no purchased energy	91 to 100

The EnerGuide for Houses scale accommodates the millions of houses across Canada — from older-homes in need of renovation to newer, more energy-efficient houses. For older homes a rating of 68 is not a bad achievement. Although the scale ranges from 0 to 100, new houses typically rate at 68 or above simply because of improvements in building standards and practices over the years. The house rating categories vary somewhat across the country as a result of differences in local codes. The Canadian figures noted above may not reflect your area as well as others. Certain factors like the size of a home's windows and their orientation, can also affect the rating. Meeting 80 on the scale is a real achievement! Relatively few homes meet 80 on the scale, and those that do represent the most energy-efficient homes on the market.

By reducing the amount of energy you use at home you reduce the production of greenhouse gases such as CO₂. Small improvements by all of us will help Canada's efforts to combat climate change and protect the environment. Together we can do it. By improving your home's energy efficiency to the potential rating noted above, you will reduce your home's production of greenhouse gas emissions by 2.9 tonnes per year.

Estimated Annual Energy Consumption

The energy advisor has estimated your house's annual energy consumption based on the house's general characteristics, its energy-using equipment and the following standard conditions: a complete air change approximately every three hours; four occupants; a fixed thermostat setting of 21°C on main floors and 19°C in the basement; average water consumption values; average electric consumption values; and, average weather data.

These conditions standardize the rating so you can compare your house's rating to similar size houses built in similar regions. However, the conditions may not entirely reflect your household. Your house's actual energy consumption and your future savings may be significantly influenced by the number of occupants, their day-to-day habits and their overall lifestyle.

This house if it were built to building code standard would have an estimated annual energy consumption of 172GJ* As indicated in Table 1, the energy advisor has determined that with the upgrades made at 8 Johnston Street, your energy consumption would be estimated to change to 113 GJ.

* One GJ is the amount of energy that would be consumed by ten 100-Watt light bulbs lit continuously for 12 days.

Table 1. Estimated Annual Energy Consumption

	Electricity kWh	Natural Gas cu. m	Oil L	Propane L	Wood Cords	Total GJ
Building Code Standard	9337	3703				172
8 Johnston Street	9313	2145				113
Savings	23	1558				58

Table notes: kWh=kilowatt-hour; cu. m=cubic metre; L=Litres; GJ=gigajoule;

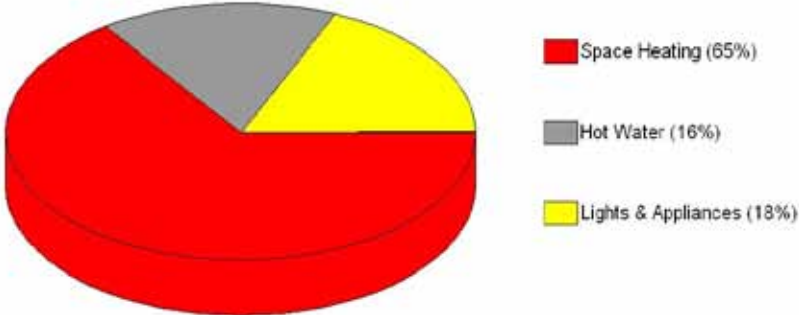
Energy Consumption by End Use

Houses lose heat to the outdoors during the heating season through ventilation (e.g. exhaust fans in bathrooms and kitchen) and the transfer of heat through the basement, walls, roof, windows and doors. As a house ages in Canada's severe climate, and homeowners themselves make changes such as drilling holes in walls for new pipes and machinery, tiny cracks will open up over time in the building envelope. Just like anything else you value, houses need to be maintained with care and repaired whenever problems appear. A well-maintained house will pay you back with greater energy-efficiency and comfort

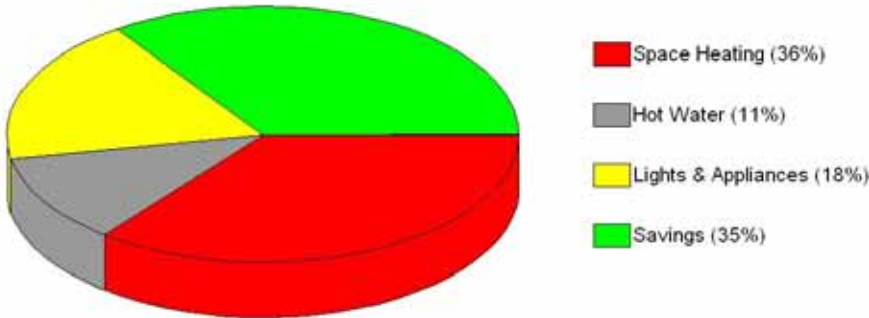
Figure 1 breaks down you house's estimated energy consumption by end use — space heating, domestic hot water heating and lights and appliances. It also indicates the reduction of energy consumption by up to 35% at 8 Johnston Street.

Figure 1. Energy Consumption Estimates by End Use

Building Code Standard

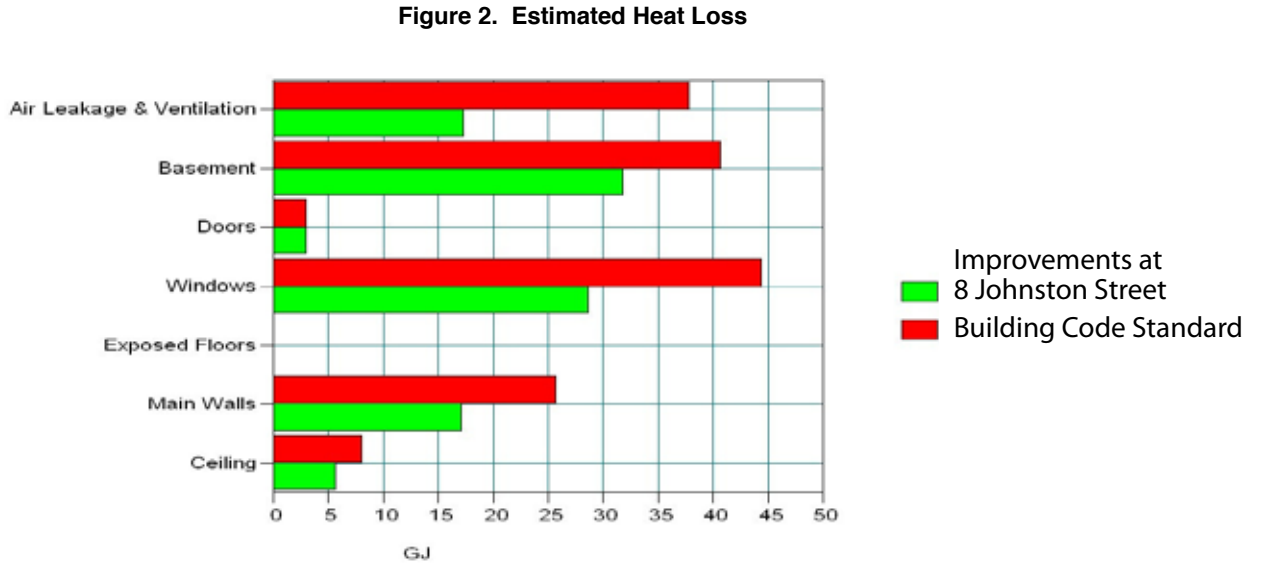


8 Johnston Street



Estimated Heat Loss

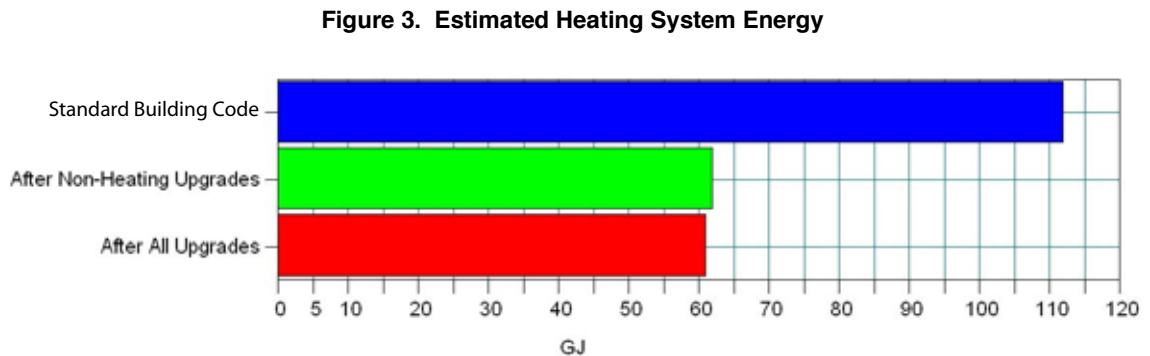
Figure 2 shows how the "energy for space heating" segment shown in Figure 1 actually gets used in the heating of your home. A long bar indicates where you are losing more energy; a short bar indicates ar you aren't losing as much energy.



Heating System Energy

Figure 3 shows the estimated energy use for your space heating system in gigajoules (GJ), a measurement of energy where 1 GJ is equivalent to 278 kWh. The following describes the meaning of each bar:

- The top bar shows the estimated space heating system energy (furnace) use at standard building code.
- The middle bar shows the estimated energy use considering upgraded air tightness to the building envelope, increased insulation and the upgraded HRV. It is estimated that you would save up to 45% with all of these upgrades.
- The bottom bar shows the additional savings gained with the upgraded furnace & ECM motor



Notice to Homeowner

Your house has been examined by a qualified energy advisor based on standard conditions. This report represents the evaluator's best judgement given the information and time available.

The purpose of EnerGuide for Houses is to assess the energy efficiency of your house; it is not meant to replace a full house inspection. Natural Resources Canada makes no warranty, expressed or implied, with respect to the energy consumption figures, cost estimates or energy efficiency recommendations included in this assessment. Actual energy consumption and costs depend on a host of factors beyond the control of Natural Resources Canada.

EnerGuide for Houses promotes the use of energy-efficient equipment bearing the ENERGY STAR® symbol

Government of Canada.

The Government of Canada subsidizes the EnerGuide for Houses service. This allows companies to provide the service to homeowners at a reduced rate. By signing below you acknowledge that you have read this page and that you authorize the information collected about your house during the EnerGuide for Houses service to be supplied to Natural Resources Canada for the purpose of statistical analysis. You may be contacted by a representative of Natural Resources Canada in the course of their performing any quality assurance assessments of the program.

Homeowner's Signature: _____ Date: _____
Energy Advisor: John Harris
Company: DSG Home Inspections
Telephone: 705-329-2315
Energy Advisor's Signature: _____ Date: _____