

Automated Home Energy Rating and Retrofit Report



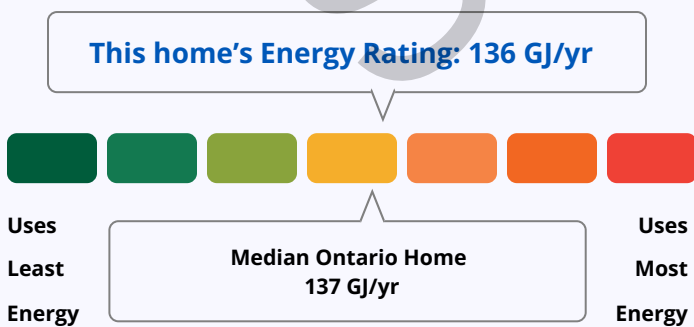
Property Address	123 ANY ST
Municipality	ANY TOWN
Roll Number	000000000000000
Property Description	Single-family detached (not on water)
Postal Code	A1A 1A1
Province	ON
Order date	2024-05-22

HOME DETAILS

Structure Description	SINGLE FAMILY DETACHED	Basement Total Area (sqft)	1,095
Year Built	2008	Basement Finished Area (sqft)	-
Total Floor Area (Above Grade sqft)	2,160	Heating	Forced Air
Full Storeys	2	Fuel Source	Natural Gas
Partial Storeys	No part storey	Cooling System	Y

Automated Home Energy Ratings provide a low-cost option to help understand how a home uses energy. Climative, a leading producer of digital home energy assessments, has used structure details on file at MPAC, along with weather information and results from over 600,000 on-site energy assessments to provide the following estimates of this home's annual energy usage, energy use breakdown, and carbon emissions. The Energy Rating and Carbon Emissions are shown in comparison to other homes in Ontario.

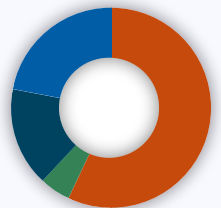
Estimated Energy Rating



One Gigajoule (GJ) equals the energy from two BBQ propane tanks.

Energy Use Breakdown

- Space Heating 57%
- Space Cooling 5%
- Water Heating 16%
- Appliances, Lights & Other 22%




Carbon Emissions




It takes 261 trees to clean this home's emissions from the air

Home retrofits result in lower energy bills, added comfort, and help to reduce environmental impacts. The following retrofits, with estimated annual energy savings and carbon emission reductions, are recommended for this home.


Recommended Retrofit	Estimated Energy Savings	Estimated Emission Reduction
<p>Heat Pump A heat pump moves heat out of the home to cool it down in summer and moves heat into the home to warm it up in winter reducing the energy required. A heat pump can be centrally ducted or ductless.</p>	Save 42 GJ/yr	Reduce 3.75 tonnes CO ₂ e/yr
<p>Electric Storage Water Heater An Electric Storage Water Heater (ESWH) heats water with electricity and retains it in an insulated cylinder until required. ESWHs offer similar efficiency and performance to their gas-fueled counterparts, but generate less greenhouse gas.</p>	Save 8 GJ/yr	Reduce 1.03 tonnes CO ₂ e/yr
<p>Air Sealing Air sealing patches cracks and holes in the outside walls of the home. This results in a more consistent indoor temperature, fewer drafts, and decreases the energy needed for heating and cooling.</p>	Save 3 GJ/yr	Reduce 0.19 tonnes CO ₂ e/yr



To estimate the impact of a retrofit, deduct the Estimated Energy Savings and Emission Reduction shown above from the Estimated Energy Rating & Carbon Emissions displayed on page 1.



The energy usage shown on utility bills may be higher or lower than indicated in this report.



Check with your local electricity or natural gas provider to learn more about energy saving tips, retrofits, and potential incentive programs.

FREQUENTLY ASKED QUESTIONS

Who is Climative?

MPAC has partnered with Climative, a Canadian firm specializing in energy and CO₂ emissions assessments for buildings. Climative creates automated energy insights for building across Canada. To learn more, visit www.climative.ai.

What is a Gigajoule?

A Gigajoule (GJ) is a standardized unit of energy equal to 278 kilowatt hours of electricity, 27 cubic meters of natural gas, 39 litres of propane, 26 litres of oil, or 30 litres of gasoline. By standardizing energy units, homes with different characteristics can be compared.

Is there a relationship between energy use and carbon emissions?

Yes, using less energy will reduce carbon emissions. However, some fuel types produce more emissions than others. Even if a home uses a relatively small amount of energy, if the energy comes from a high emission fuel, the carbon emissions will be higher.

Does this report factor in actual energy use or utility bills?

No. This report focuses on the features of the individual home on the property. This type of home energy rating is known as an asset-based evaluation and is intended to enable 'apples to apples' comparisons between similar homes. Utility bills can reflect many factors unrelated to the home itself, such as individual energy use habits, onsite electric vehicle charging, and amenities like garages, workshops, swimming pools and hot tubs. Similar to an onsite energy audit, actual energy use and energy requirements of secondary structures are not considered.

What if I disagree with this report?

The report contains estimates and recommendations intended to assist property owners, tenants, and prospective buyers with learning more about the energy use of individual homes. There is no obligation to implement any of the retrofits recommended in this report. If you believe the information on file is inaccurate, you can notify MPAC by emailing propertyline@mpac.ca.