

EnerGuide Technical Information

- EnerGuide for Homes, developed by Natural Resources Canada, provides a standard measure for a home's energy performance, showing approximately how energy efficient a home is while allowing consumers to compare it with similar homes.
- EnerGuide applies to residential buildings which are covered by Part 9 of the National Building Code (less than three stories tall, less than 600 square metres, and only single detached homes, duplexes, triplexes and row houses)
- EnerGuide evaluation includes an energy model of the home, and confirmation of the home's air tightness with a blower door test. The test may be done twice, once before drywall is installed to find and correct deficiencies, and once when the building is complete for verification. The blower door tests provide an opportunity to find and repair building envelope deficiencies.
- Completion of an EnerGuide assessment can be used to show energy code compliance when applying for a permit. Currently only about 0.2 per cent of homes follow this compliance path, which is an approved alternative solution under the current code and will be formally recognized as a compliance pathway in the 2020 energy code, which is planned to be adopted in Alberta on May 1, 2024.
- Since 2017, 25 per cent - 72 per cent of single detached houses built within Edmonton received an EnerGuide label, while only 0 per cent - 38 per cent participated in Edmonton's EnerGuide incentive program and had their labels shared publicly on the Home Energy Map. The number of new labels, new labels added to the Home Energy Map, and of total permit submissions can be found in the table on the following page:

Attachment 1

Year	New Home Labels added to Home Energy Map	Total New Home Labels submitted to NRCan	Number of Single Detached House Building Permits
2017	144	894	7169
2018	720	1376	1917
2019	568	1390	3096
2020	258	1201	3206
2021	53	1057	4158
2022	44	1197	4566
2023	0	1466	3656

- The estimated costs are between \$350 and \$500 per home, which includes the energy modelling, the blower door test, third party verification, and administrative fees. Energy modelling is already a building permit requirement for buildings using the performance pathway (about 80 per cent of applicants). The premium for energy labelling above the energy modelling cost is approximately a few hundred dollars for residential properties.
- EnerGuide labels are also available for existing homes, and include a renovation roadmap outlining opportunities for energy efficiency improvements. Homeowners are required to get EnerGuide assessments completed prior to being eligible for rebates in both Edmonton HERA and Solar rebate programs, and the Canada Greener Homes program.
- EnerGuide version 15 rating uses a gigajoules per year scale, with the best energy performance labeled with 0 gigajoules/year (a 1-100 scale was formerly used, with 100 being assigned to the homes with highest energy performance). The label includes a comparison to the energy used by a similar house (same size, construction type and location) built to typical new house standards. The unit of energy consumption rating is similar to the ratings available for appliances and vehicles.
- The EnerGuide label also includes energy intensity (gigajoule per metre squared per year), an estimated breakdown of energy consumption between uses (space heating, cooling, water heating, ventilation, lights and appliances, other), any onsite energy generation and estimated annual greenhouse gas emissions.

- The City of Edmonton’s Change for Climate website includes an example of an EnerGuide label for a new home (below) and some Frequently Asked Questions:

file number

Also known as the File ID

LEARN ABOUT YOUR HOME’S ENERGY rating

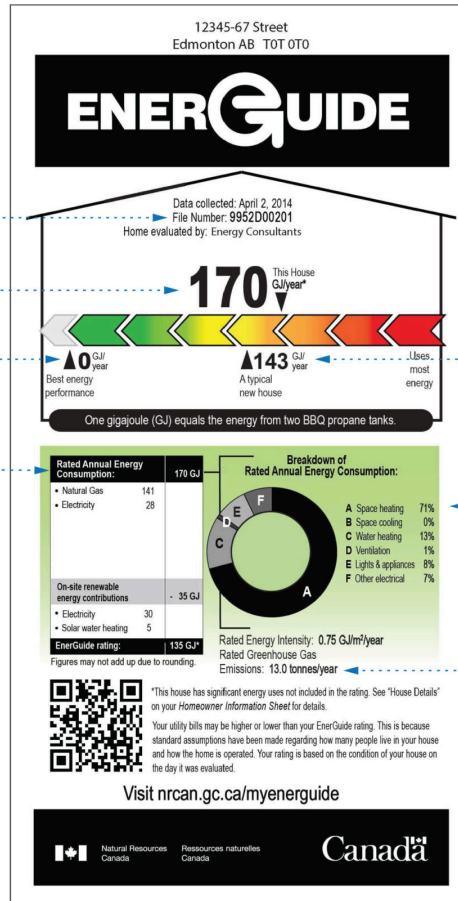
You will receive a rating of the home’s energy consumption in gigajoules

AIM TOWARDS zero

The lower the number on the new **EnerGuide** scale, the better the energy performance of your home

UNDERSTAND HOW YOU USE energy

The label breaks down energy consumed by source



COMPARE YOUR HOME’S performance

The label shows how your home’s performance compares to a benchmark home

FIND OUT WHERE MOST ENERGY IS consumed

The label shows proportion of energy consumed by heating, cooling, ventilation, etc.

SEE YOUR IMPACT ON THE environment

The label shows your home’s greenhouse gas emissions