

Energy Efficiency Criteria Attestation

TO: <CMHC Specialist>

AND TO: CANADA MORTGAGE AND HOUSING CORPORATION ("CMHC")

RE: Multi-Unit residential project located at/to be built at

<municipal address> (the "Project")

I, the undersigned, in my capacity as

<as applicable: for Part 3 construction, professionals with energy modelling experience such as a Professional Engineer, Architect, Certified Engineering Technologist (CET) or Certified Energy Manager (CEM). For Part 9 construction, a Residential Energy Advisor accredited by Natural Resources Canada, or equivalent.>

with expertise and experience in the field of

<as applicable: e.g., energy consumption modelling and assessment of residential properties.>

do hereby certify to the Approved Lender and CMHC that:

1. The Project will meet NHCF's minimum requirements for energy efficiency criteria as set out below.
2. Any major changes to the project design that will result in changes to the indicated reductions in energy consumption and Greenhouse Gas ("GHG") emissions certified below will be brought to CMHC's attention in a timely fashion. An updated analysis confirming the performance of the as-built project complies with program requirements may be required.

For New Construction

The new construction Project will have at least a _____ % reduction in energy consumption and at least a _____ % reduction in greenhouse gas (GHG) emissions relative to the (select reference as applicable):

2015 National Energy Code for Buildings (NECB)

2015 National Building Code (NBC)

2017 National Energy Code for Buildings (NECB)

The following modelling software was used in the analysis

New construction properties must achieve a 25% decrease in energy consumption and GHG emissions relative to the 2015 NECB or the 2015 NBC or a 15% decrease in energy consumption and GHG emissions relative to the 2017 NECB.

Acceptable modelling software must comply with the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) standard 140 "Standard Method of Test for Building Energy Analysis Computer Programs" (2017), which requires that the software be capable of modelling a building's hourly energy use. Applicants whose projects will be designed, built, tested, inspected and certified to Passive House standards are permitted to use Passive House Planning Package as demonstration of compliance with the minimum energy efficiency requirements.

For Repairs and Renewals

The post-retrofit or post-renewal Project will have at least a _____ % reduction in energy consumption and at least a _____ % reduction in greenhouse gas (GHG) emissions relative to the to pre-retrofit or pre-renewal energy consumption and GHG emission levels.

The following modelling software was used in the analysis

Existing properties must achieve a minimum 25% decrease in energy consumption and GHG emissions relative to past or pre-renewal performance levels.

Acceptable modelling software must comply with the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) standard 140 "Standard Method of Test for Building Energy Analysis Computer Programs" (2017), which requires that the software be capable of modelling a building's hourly energy use. Applicants whose projects will be designed, built, tested, inspected and certified to Passive House standards are permitted to use Passive House Planning Package as demonstration of compliance with the minimum energy efficiency requirements.

CMHC reserves the right to request the complete energy modelling analysis, which is to include, but is not limited to:

- A brief Executive Summary of the comparison of annual total energy consumption and GHG emission reduction performance between the base case and the proposed project.
- A summary of the energy modelling of the proposed project that indicates annual energy consumption and GHG emissions for the total building and a breakdown of the estimates for each major energy end use (e.g. space conditioning, hot water, lighting, equipment, appliances, etc.).
- An overview of the key physical and operational features of the base case and proposed building that illustrates the improvements to be made to building envelope, space conditioning, hot water, lighting and other systems, energy recovery and renewable energy systems to achieve compliance.
- Input and output files for the energy consumption modelling for the base case and proposed project. The files must detail monthly energy consumption for the whole building and by major end use (space heating, hot water, lighting, equipment, systems, etc.).
- Any supplemental calculations for energy contributions of renewable energy systems, other systems and conditions not included in the energy and GHG modelling.
- GHG calculations, methodology and assumptions.

I acknowledge that the energy analysis upon which this attestation is based may be reviewed, audited or assessed for accuracy and best practices by CMHC or used for CMHC's impact reporting purposes. I agree to provide timely responses to questions from CMHC regarding the analysis and findings and, if necessary, provide a revised analysis and attestation.

DATED the <day> of <month> 20 <year> .

Signature:

Name:

Designation:

Contact
Information: