



**Green Buildings Priority Stream
Entry Pathway #2:
National Building Code – 2019 Alberta Edition / NBC 2019 (AE)**

- A. Available to all buildings designed to exceed the minimum performance standards identified in Section 9.36 of NBC 2019 (AE) in keeping with the requirements detailed in paragraphs B or C below.
- B. Eligible projects must provide the following information when submitting a Development Permit application:
 - i. A list of renewable energy systems and/or key anticipated energy conservation measures.
 - ii. A Preliminary Energy Model prepared by a qualified Energy Advisor, demonstrating that the proposed development is being designed to:
 - o consume at least **30% less energy** (GJ/y) than the Reference Building; and
 - o emit **60% less emissions** (tCO₂e/y) than the Reference Building, through a combination of building performance improvements and renewable energy generation.
 - iii. A completed  [GHG emissions calculator](#) form for Part 9 buildings.
- C. Development projects that cannot achieve a 60% emissions reduction due to siting, building and other limitations may be considered if they meet a net zero ready standard¹.

Building Performance Example

Modelled Energy Consumption and GHG Emission Savings								
Project "X" – 2 Buildings – 24 units								
	Energy Consumption			Renewable Energy Net Energy Consumption		GHG Emissions ²		
	Reference Building (GJ/y)	Proposed Building (GJ/y)	Better Than Reference ³	Renewable Energy Gain (GJ/y)	Net Energy Consumption (GJ/y)	GHG Reference Building (tCO ₂ e/y)	GHG Proposed Building (tCO ₂ e/y)	GHG Avoided
Building A	635	448	29%	230	218	100	35	65%
Building B	331	228	32%	115	114	52	18	66%
Average	483	338	30%	172	166	76	26	65%

¹ A net zero ready building is one that has been designed and built to a high-level of performance such that it could, with the addition of solar panels or other renewable energy technologies, achieve net-zero energy performance.

² [Emissions Factors](#)

³ [National Building Code of Canada – 2019 \(Alberta Edition\)](#)