

Green Buildings Priority Stream
 Entry Pathway #5
 CaGBC Zero Carbon Building Design Standard

This pathway is available to development permit applicants proposing buildings that demonstrate the intent to meet or exceed the performance requirements of the Canada Green Building Council’s [Zero Carbon Building Design Standard Version 4](#).

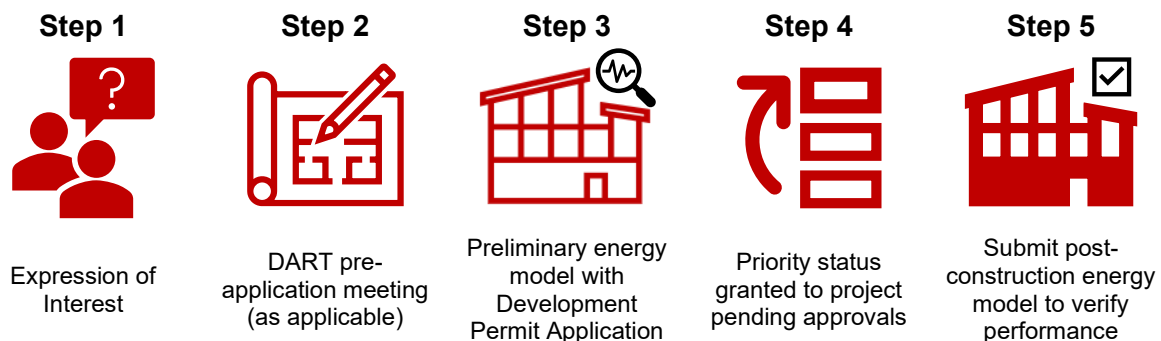
Energy and Emissions Performance Requirements

To be eligible, a building must meet all the following Zero Carbon Building Design Standard requirements:

- Model a carbon balance of zero or better based on the net sources and sinks of embodied, operational, and avoided emissions, in accordance with ZCB-Design (latest version). Green power products (e.g. renewable energy certificates) and carbon offsets are permitted as part of the carbon balance.
- Meet the applicable limits/thresholds for embodied carbon and operational emissions, including space heating, service hot water, refrigerants, fireplaces, stoves, and ranges.
- Demonstrate compliance with the applicable thermal energy demand intensity (TEDI) and energy use intensity (EUI) requirements, based on the selected approach.
- Justify the use of air leakage rate lower than the default.
- Report findings from an optional future-weather sensitivity analysis
- Report seasonal peaks and any electrical load reductions
- Evaluate alternative design and develop Transition Plan for space heating or service hot water combustion equipment.
- Apply two impact and innovation strategies.

For more detailed information, see [Zero Carbon Building Design Standard Version 4](#).

How to participate



The next page details the participation steps.

Green Buildings Priority Stream participation steps

Step 1 Contact the Program Coordinator to express interest in having a project prioritized through the Green Buildings Priority Stream.

- **Email:** greenbuildings@calgary.ca
- **Phone:** 403.826.0454

Step 2 Consider requesting a [Development Applications Review Team \(DART\) pre-application meeting](#) by calling the Planning Customer Service Line at 403-268-5311.

DART Pre-applications are strongly recommended on all major, complex, or controversial outline plan, subdivision, land use amendment and development permit applications. Having a DART pre-application can help identify major issues with the proposal, as well as identify supplemental technical information that will be required to accompany the formal application.

A Development Applications Review Team (DART) pre-application is submitted online through vista.calgary.ca. Click on the following for the [Complete application requirement list](#) and [how-to guide](#).

Step 3 Include the following documentation with your [development permit application](#):

1. A completed preliminary **ZCB-Design workbook (latest version)**.
2. The **energy model report** and **life cycle analysis report** that support completion of the **ZCB-Design workbook**.
3. A brief **Energy and Carbon Modelling Summary** (1–2 pages) confirming the project's intent to meet ZCB-Design and describing how the project is achieving zero carbon design through operational and embodied carbon reductions, renewable energy, and carbon offset purchases.

Note: *Energy modelling submitted at the Development Permit stage is used to determine eligibility for this pathway only.*

Step 4 The Program Coordinator will respond to your development permit application submission documentation to either:

1. Issue a formal invitation to the Green Buildings Priority Stream;
2. Request additional information; or
3. Advise that the project does not meet the eligibility requirements.

From this point forward, the application proceeds through the City's standard development and building permit review processes. The benefit of priority status is that the City coordinates reviews internally to resolve issues earlier and more

efficiently, reducing overall review timelines. Where needed, the Program Coordinator may work directly with the applicant to clarify or resolve outstanding items.

Step 5 Following construction, submit the following for post-construction verification of performance and Zero Carbon Building Design Standard certification outcomes:

1. Proof of **Zero Carbon Building Design Certification (latest version)**.
2. A completed post-construction (as-built) **ZCB-Design workbook (latest version)**.