

Green Buildings Priority Stream Entry Pathway #1 National Energy Code of Canada for Buildings 2020 (NECB 2020)

This pathway is available to development permit applicants proposing buildings that demonstrate significantly better energy and emissions performance than the NECB 2020 reference building.

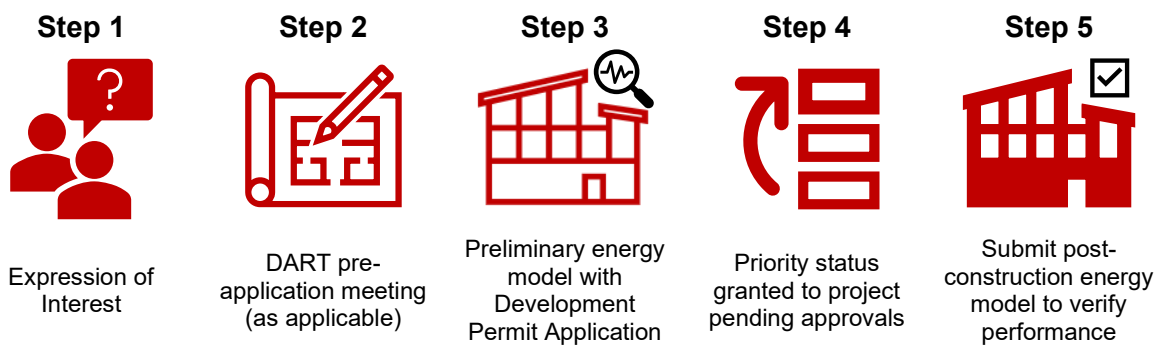
Energy and emissions performance requirements

To be eligible, a building must meet all the following energy and emissions performance requirements:

- Achieve **Energy Performance Tier 2 or higher** by consuming at least **25 per cent less energy** (GJ/year) than the **NECB 2020 reference building**; and
- Emit at least **50 per cent fewer greenhouse gas emissions** (tCO₂e/year) than the **NECB 2020 reference building**. Emissions reductions may be achieved through a combination of reduced energy use and on-site renewable energy generation.

If a building cannot achieve a 50 per cent emissions reduction due to unique site, building, or design constraints, it may still be considered under this pathway if it meets a net zero ready standard¹.

How to participate



The participation steps are detailed on the next page.

¹ A net zero ready building is designed and built to a high level of energy performance and could achieve net zero emissions in the future with the addition of renewable energy systems, such as solar panels.

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 preliminary energy model that:
 - a. Is authenticated by a Professional Engineer (P.Eng.) licensed to practice in Alberta and registered with APEGA;
 - b. Demonstrates NECB 2020 Tiered Energy Performance compliance using a whole-building energy model prepared in accordance with NECB 2020 Part 8, including
 - i. modelling of both the proposed building and a compliant reference building defined in Section 8.3;
 - ii. modelling undertaken in accordance with Section 8.4;
 - iii. calculation of energy performance improvement in accordance with Section 8.5; and
 - iv. inclusion of regulated and unregulated (baseload) energy, modelled using NECB internal load tables and schedules.
 - c. Separately quantifies the impact of proposed on-site renewable energy generation outside of the NECB compliance calculation, for the purposes of Green Buildings Priority Stream energy and greenhouse gas (GHG) performance eligibility requirements.

Note: *Energy modelling submitted at the Development Permit stage is used solely to determine eligibility for the Green Buildings Priority Stream and does not*

constitute, replace, or support energy code compliance documentation required for building permit submission or approval.

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

1. Submit a post-construction energy model to confirm that the as-built project's energy and emissions performance is consistent with the preliminary energy model submitted with the Green Buildings Priority Stream application.
2. The post-construction energy model must be prepared to meet the same requirements as the preliminary energy model described in Step 3.
3. The post-construction energy model is required regardless of the building code compliance pathway used for the Building Permit.