



NET ZERO

Reducing energy and carbon emissions of buildings

The Canadian Government has made a significant commitment in reducing greenhouse gas emissions by 30% (below 2005 levels) by 2030. Energy efficiency will be a focal point in upcoming building codes as all new buildings will be built to net-zero energy ready standards by 2030.

The Sustainability Team brings a strong background in sustainable development, energy management, and emission reduction practices combined with field assessment and data collection to provide everything needed to align our clients with Canada's commitment in reducing emissions.

KEY OBJECTIVES

- Decarbonization: Develop a roadmap in reducing net greenhouse gas (GHG) emissions associated with buildings
- Efficiency: Maximize energy efficiency with a focus on the building envelope and ventilation strategies that drive down thermal energy demand

Highlights of This Service Include:

- Documentation and site review
- Energy Modeling of baseline and proposed building
- Recommendation of energy conservation measures
- Embodied carbon and Life-cycle analysis (optional)



Existing Building

A baseline assessment on the existing building or portfolio of buildings will be conducted to propose energy and carbon reduction measures. Existing buildings are audited based on ASHRAE standard (ASHRAE Level 1, 2, or 3).

New Construction

A baseline energy model (commonly based on National Energy Code of Canada for Buildings, NECB) will be compared with the design building, to determine potential design features in achieving design targets.

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