



Engineering
for people



ROADMAP FOR THE **DECARBONIZATION** OF EXISTING BUILDINGS

Owners of existing buildings must prepare themselves to meet the Government of Canada's Net-Zero emissions target by 2050 and reach their half-way point in emission reduction by 2030.

WHAT IS NET-ZERO?

A building must be highly energy efficient and powered by renewable energy either on or off-site, with any remaining annual carbon emissions offset.

HOW TO ACHIEVE NET-ZERO?

Conducting a **GHG reduction-pathway assessment** will allow for identifying energy conservation measures (ECM) and GHG reduction potential and integrating them into a roadmap to decarbonization while managing both the capital and operational costs.

The assessment provides a **decision-making tool for capital planning and asset management** in alignment with your energy and GHG reduction goals.

WHERE TO BEGIN?

Follow our roadmap for the decarbonization of existing buildings in alignment with the Federal Government's 2030 and 2050 targets.

WHAT IS NEXT?

At CIMA+ we believe that our job aims at improving the lives of those around us. Our experienced and diverse team across Canada is here to support you on developing your decarbonization roadmap.

Partner with CIMA+ in your Net-Zero journey and leverage our expertise in developing customized decarbonization roadmaps.



Contact us at info@cima.ca

cima.ca



1 Photo: Jonathan Robert

**A SIMPLE AND STRAIGHT FORWARD PROCESS:**

- Step 1 Project goals:**
Understand your needs and objectives and develop decarbonization goals.
- Step 2 Grants and incentives:**
Review grant and incentive opportunities related to your buildings and market.
- Step 3 Building audits:**
Assess the energy performance of the buildings and identify opportunities and challenges. The site surveys will include up to ASHRAE Level 3 energy audits.
- Step 4 Energy model:**
Project team to conduct an energy simulation for each building using a modelling software in accordance with ASHRAE 14.
- Step 5 Design workshop:**
The project manager will organize and facilitate design workshop meetings with key project stakeholders to present preliminary findings and results and prioritize the energy conservation measures (ECM) and GHG reduction measures to be further analyzed.
- Step 6 Energy and GHG analytics and financial modelling:**
The team will propose options for each ECM/GHG reduction pathway scenario and conduct a technical and financial analysis.
- Step 7 Final concept and report:**
The PM will present the final ECM and GHG analytics and financial modelling results to you.

