



Housing, Infrastructure
and Communities Canada

Logement, Infrastructures
et Collectivités Canada

An aerial photograph of a city, likely Winnipeg, showing a wide river (the Red River) flowing through the center. A bridge with two arches spans the river. The city is surrounded by green trees, and the sky is blue with scattered white clouds. The image is partially obscured by a semi-transparent white overlay on the right side.

Climate Toolkit for Housing and Infrastructure

Presentation to Elected Officials

Northwest Territories Association of
Communities (NWTAC) Conference

February 27, 2025

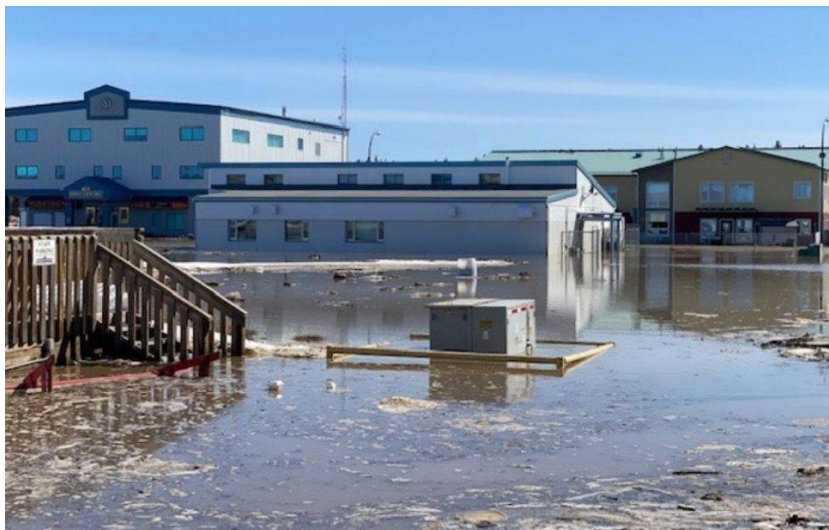
Communities across Canada are experiencing the devastating impacts of climate change

Since 2018, 829 people in Canada died from extreme heat events.

Climate change impacts cost Canadians on average \$720 per year in repairs, making life less affordable.

Canadian insured losses from catastrophic events exceeded \$3 Billion in 2023.

Sources: [Climate Change Adaptation - Canadian Climate Institute](#) & [Catastrophe Indices and Quantification Inc](#)



Ice Jam and Flooding
Hay River, NT 2022



Thawing Permafrost
Hershel, YK 2021








Wildfires
Yellowknife, NT 2023



Extreme Heat (37°C)
Fort Good Hope, NT 2023

What's the challenge?

Communities across Canada urgently need to increase their resilience to climate hazards and mitigate emissions. Yet, many communities face a series of barriers to doing so, such as:

-  Appropriate resources are difficult to find
-  Geospatial data is not accessible or hard to use
-  Regionally-specific expertise is limited
-  Specialized technical expertise is too costly
-  Staff are oversubscribed



Climate Toolkit for Housing and Infrastructure

Providing Canadian communities with the resources and expertise needed to address climate change and build low-carbon, resilient housing and infrastructure.



Who is it for?

Infrastructure professionals and decision-makers from Canadian communities

Services



Help Desk

Contact a dedicated service line within HICC for assistance with integrating climate change into their project.



Online Platform

Evaluate infrastructure options, and access trusted tools, to implement climate-informed projects.



Roster of Experts

Get matched with climate and infrastructure experts for personalized climate-informed projects options.

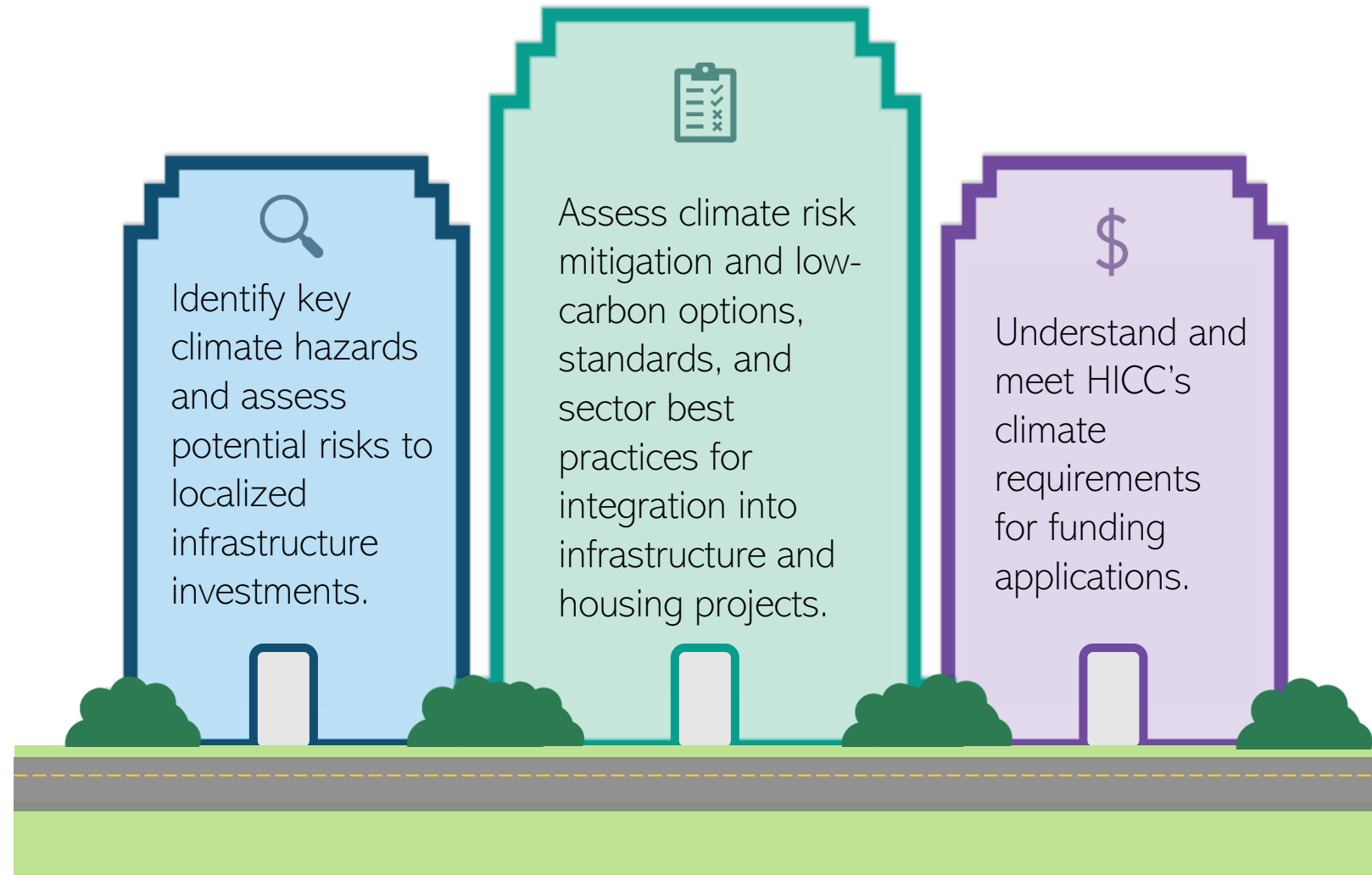
Feedback & performance measurement

Engagement and outreach

Enabling Climate Ready Communities

The Climate Toolkit for Housing and Infrastructure

- Bridges the gap in knowledge and resources.
- Enables local infrastructure professionals and owners to:



Supported Infrastructure Services

Supporting 4 categories of public infrastructure while integrating nature-based solutions:

- buildings & housing development
- water, wastewater & stormwater
- public transit and transportation
- solid waste



Three ways to submit an inquiry:



Webform

<https://support-infc.canada.ca/>



Phone

1-833-834-0243



Email

Climate-Infra-Climat@infc.gc.ca

Climate Help Desk

A dedicated service where communities can submit inquiries and receive direct support and guidance on infrastructure and climate-related needs.

It offers a broad range of services, including:



Information on **sector best practices** for incorporating low-carbon and climate resilience measures in infrastructure and housing projects.



Advice on using **specialized tools and resources** to integrate low-carbon and climate resilience into projects and relevant risk assessment tools.



Comprehensive responses to **questions about climate requirements** for HICC's funding programs.



ClimateInsight.ca

An online, open-access platform that empowers communities with the data and information they need to build low-carbon and climate-resilient infrastructure.



Explore data and maps

- Hazard maps
- Infrastructure data
- Social equity data



Guided navigation

- Options recommendations
- Tailored resource suggestions



Find specific tools

- Rapid Risk Assessment
- Emissions baseline calculator
- Resource Library

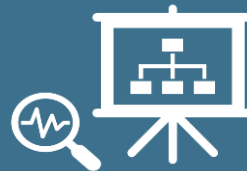
Roster of Climate and Infrastructure Experts

Tailored, regionally-informed expertise on opportunities for low-carbon, climate-resilient infrastructure projects.
<https://climatereadycanada.ca>



Connect with qualified experts

Get connected with pre-vetted, qualified climate and infrastructure experts.



Options analyses

Gain tailored, expert support to assess climate-informed options for an infrastructure project.



Better infrastructure projects

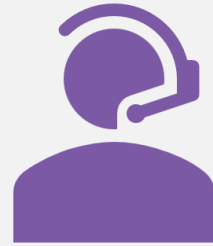
More projects that integrate climate considerations are built, better serving Canadians.

Scenario

Community in Northwest Territories with <2,000 residents.

Issue: community's drainage infrastructure is increasingly threatened by flooding and permafrost thaw. Facing a lack of funds while recognizing the need for climate-informed action.

Help Desk



Receive guidance on questions like...

- What are the trade-offs and potential co-benefits of different infrastructure solutions to address permafrost thaw?
- Can you help me understand the climate requirements of the Disaster Mitigation and Adaptation Fund?
- Can I connect with provincial support services?

ClimateInsight.ca

Find answers to...

- What solutions or case studies exist for similar communities?
- What infrastructure solutions exist for permafrost thaw and flooding?
- What are the latest best practices for small communities responding to flooding and drainage impacts?



Roster of Experts



Work with experts to analyze options using tools like cost-benefit analysis, for:

- Construction and design techniques such as deep piles into stable soil below permafrost
- Relocating infrastructure to more stable terrain
- Bolstered monitoring programs to track permafrost impacts



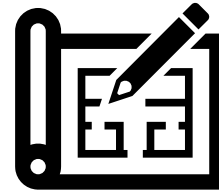
Work with us



We want to hear from you



Let's foster connections



Help us refine our services

Connect With Us

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Scan the QR code or follow the link to provide further feedback, suggest useful tools and resources, and leave your contact information to stay up to date on the initiative.

<https://rb.gy/wrktre>

