



Eagle Eye View

of Climate, Environment, and Infrastructure in 8 First Nations Communities in Manitoba

Swampy Cree Tribal Council

Climate West Forum

May 13, 2026





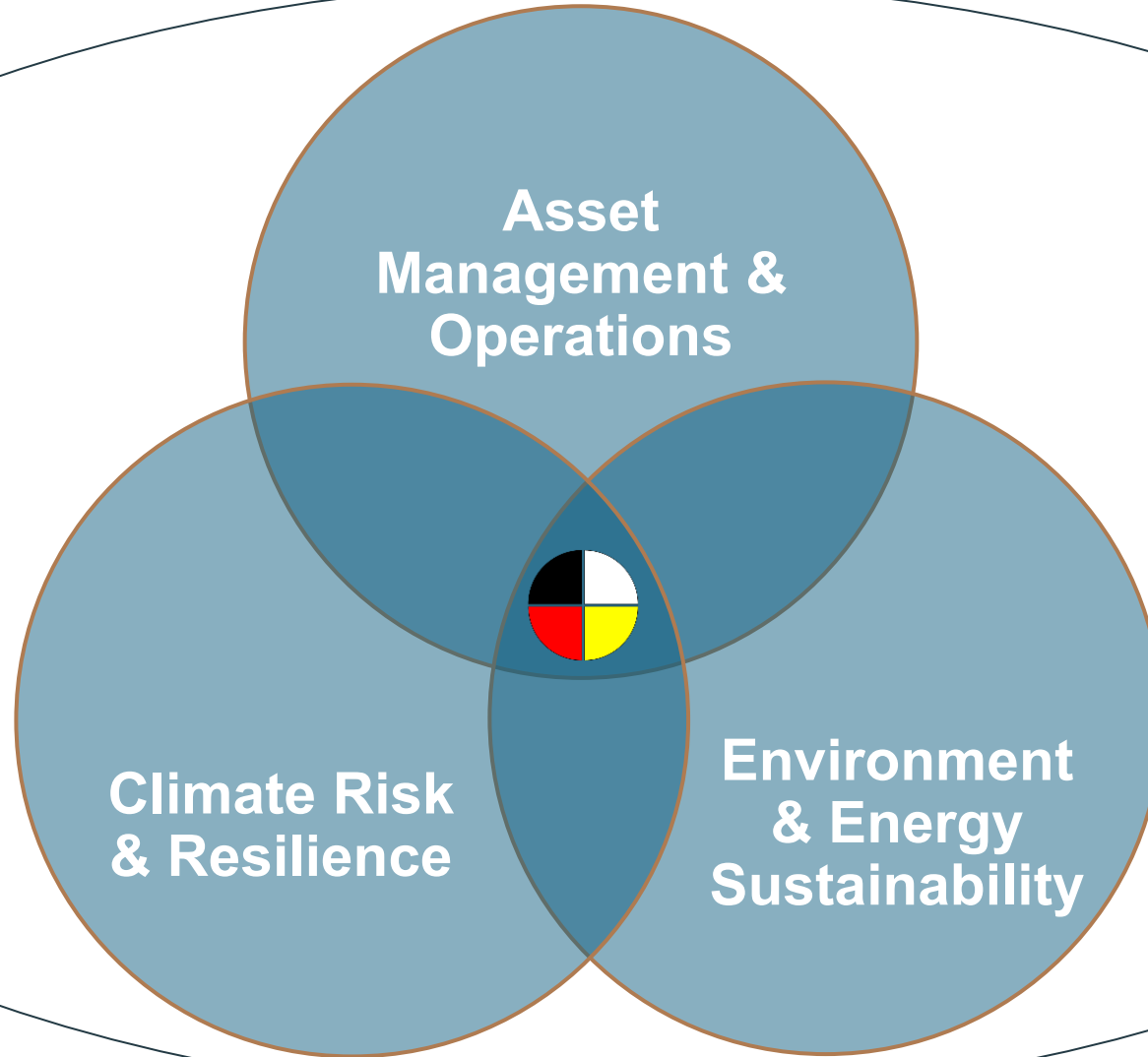
Eagle Eye View



**Built
Assets**



**Natural
Assets**



First Nation Asset Management

- Participating First Nations and SCTC Technical Unit were able to navigate Asset Management from a First Nations perspective...
- ... with the assistance of the SCTC Asset Management Committee (8 First Nation Representatives), the First Nation Infrastructure Toolkit (FNIRT), the BC First Nations Asset Management Guide, many Expert Presenters.



Staffing



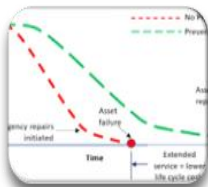
Tools and Equipment



Community Vision



Skills Development



Funding



Opportunity



Political Climate

Swampy Cree Tribal Council

Infrastructure Asset Management and Climate Change Conference

July 11-14, 2022
Hilton Winnipeg Airport Suites
1800 Wellington Ave, Winnipeg, Manitoba

Planning for an Asset Management Program can take a journey into the infrastructure assets of the community.

This process of planning can be done in manageable pieces while always considering cultural value and traditional knowledge.

Participatory Climate Risk Assessments

Risk Reports

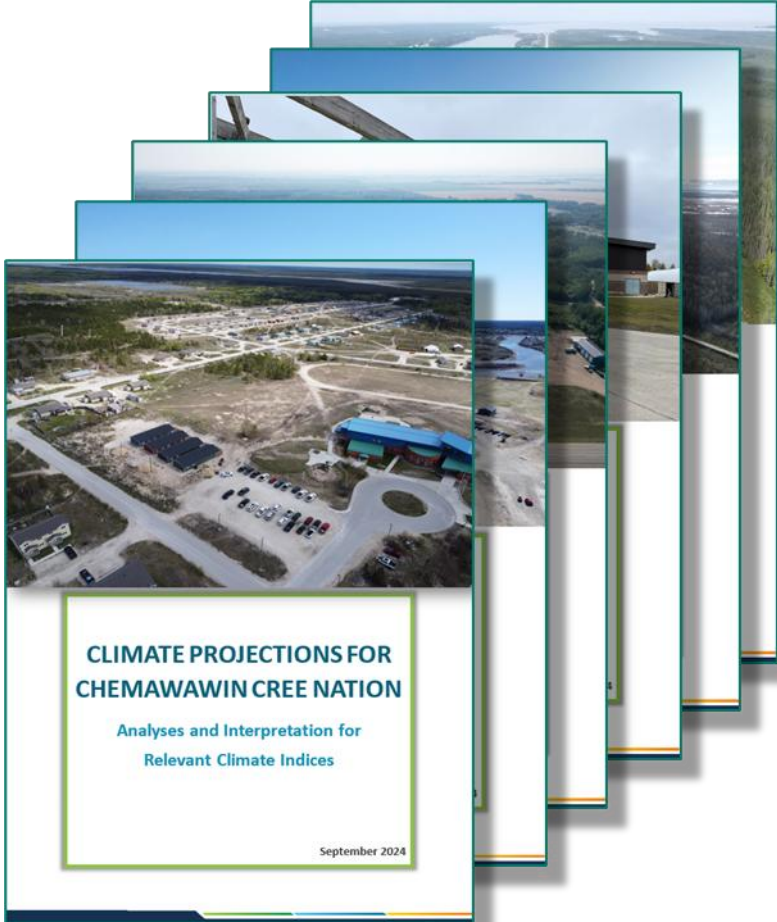


Funding from First Nations
Adapt Program

Brochures & Videos



Climate Reports



Participatory Climate Risk Assessment



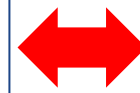
STEPS

1. Define Scope of **Assets**
2. Identify Climate **Hazards**
3. Assess **Likelihood** of Hazards
4. Assess **Severity of Impact** of the Climate Hazards
5. Determine **Risk Level**:
 $\text{Risk} = \text{Likelihood} \times \text{Severity}$
6. Identify **Resilience Actions**
7. Risk & Asset **Management**

In general accordance with PIEVC methodology and First Nations Infrastructure Toolkit

Climate Risk Register

Building Name: General	Climate Hazards and Indicators											
	Heat	Ice	Wind	Thunderstorm	Lightning	Wildfire	High Wind	Winter Storm	Coastal Storm	Sea Level Rise	Groundwater	Water Cycle
Building Components												
Structure												
Roof												
Exterior Walls												
Interior Walls												
Floors												
Basement												
Windows												
Doors												
Roofing												
Exterior Finishes												
Interior Finishes												
Mechanical												
Electrical												
Plumbing												
HVAC												
Water												
Sanitation												
Energy												
Transportation												
Information												
Security												
Other												



Asset Register
(Built and Natural)

Example Resilience Actions Identified

Built Assets

Wildfire

- * FireSmart Homes and Wildfire-ready structures
- * Community Fireguard

Extreme Winds

- * CSA S520.22 for building retrofits
- * Yards - secure loose debris and equipment

Lightning

- * Local backup power
- * Power surge protectors

Extreme Heat

- * Designated heat shelter
- * Interior window shades

Snow/Freezing Rain

- * Rooftop snow/ice removal
- * Clearing of frosted power lines

Flooding/Extreme Rain

- * Fluvial/pluvial flood modelling & mapping
- * Review existing drainage capacity

Natural Assets

Lakes & Rivers

- * Research impact of warmer summers on aquatic species
- * Ice-safety awareness

Groundwater

- * Research impact of climate change on aquifer
- * Identify potential alternative water source

Forests, Wetlands

- * Harvesting contracts for felled trees
- * Seedbank for traditional plants and medicines

Shorelines, Embankments, Soils

- * Monitor erosion and mitigate as needed
- * Floating dock systems

Rec & Cultural Spaces

- * Signage for extreme weather shelter
- * Awareness for poor air quality & weather conditions



Northwest and West Central Manitoba

Climate Action

Traditional Knowledge

Partnerships

Resilience

Community

Climate Risk

Climate Action

Funding Provided by



Climate Action Fund

Climate Action 2025

To Promote Awareness, Collaboration, and Action across Jurisdictions for Enhancing Resilience to Extreme Weather and Climate Change

(Manitoba Climate Action Fund)



Image Source: Climate and Green Plan Implementation Office, MB Environment and Climate , together with IISD
Available at: <https://climatewest.ca/wp-content/uploads/2024/12/mb-cvra-guide.pdf>

Forum Discussion of Risks and Opportunities for ...



Community and People



Critical Services



Buildings & Infrastructure



Local Economy



Natural Environment



ASKITAKOSIW PINESISKOTEW CLEAN ENERGY PROJECT



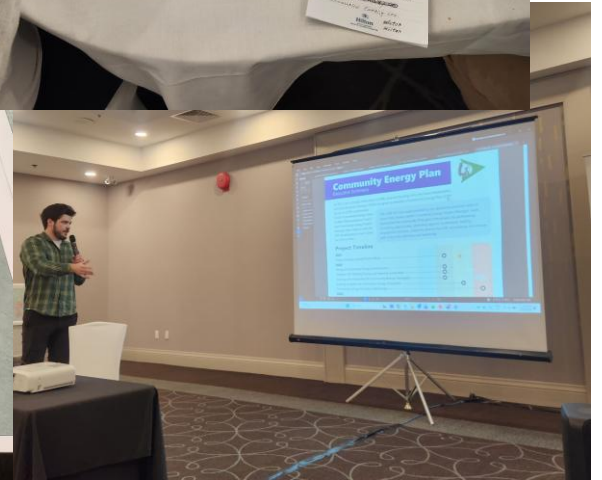
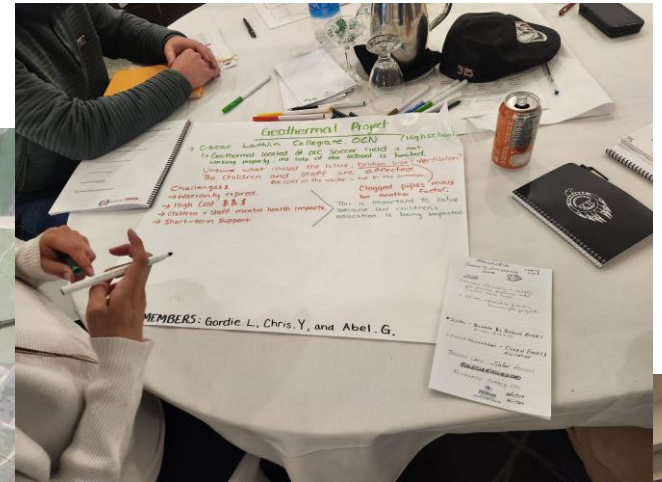
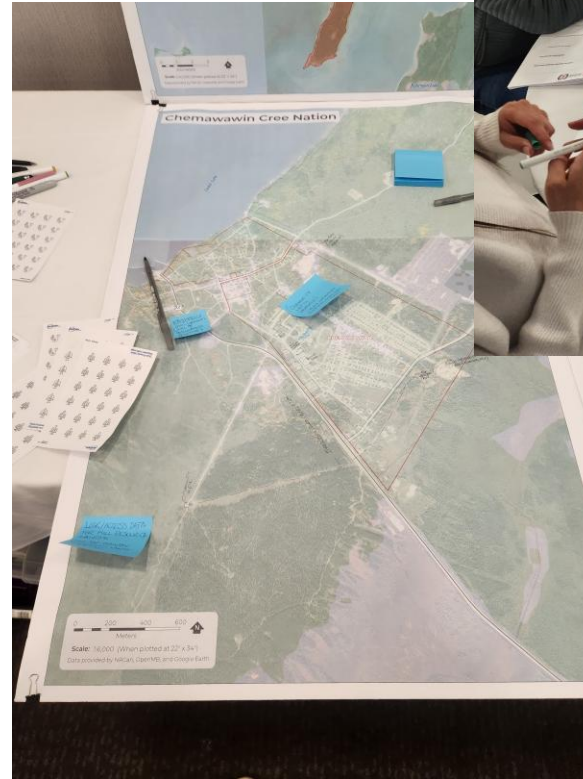
SCTC Clean Energy Forum

March 24-25, 2026

Hilton Airport Inn & Suites

1800 Wellington Ave, Winnipeg

Community Energy Planning



Eagle Eye View

