

# City of Lethbridge CASAP Report and Associated Climate Strategies

- Are the assumptions valid?
- Will the proposed actions be helpful?

## Mitigation

### Partners for Climate Protection Program Spotlight: Lethbridge

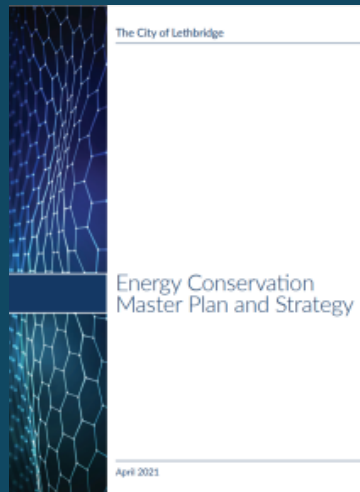
March 15, 2021

The City of Lethbridge is creating a more sustainable community.

The City of Lethbridge is southern Alberta's commercial, financial, transportation, education, and industrial centre. The City of Lethbridge is working to reduce emissions in these sectors to create a sustainable community.



Completed Milestone 2: Set an emission reduction target for corporate emissions of 40 per cent under 2018's levels by 2030.

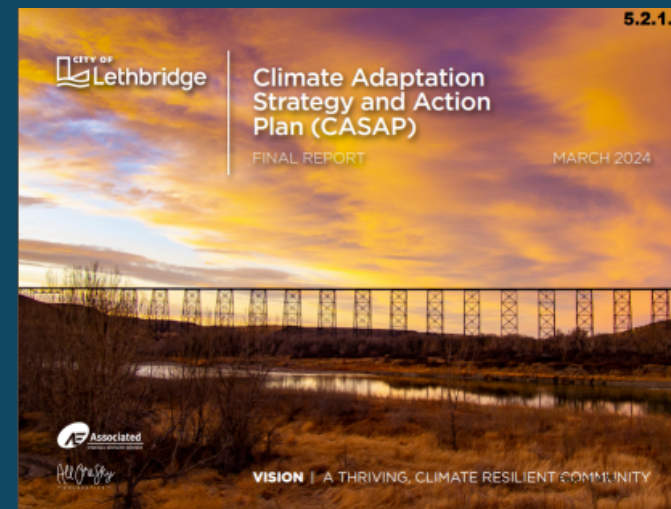


The City of Lethbridge

Energy Conservation  
Master Plan and Strategy

April 2021

## Adaptation



# CASAP Final Report, March 2024

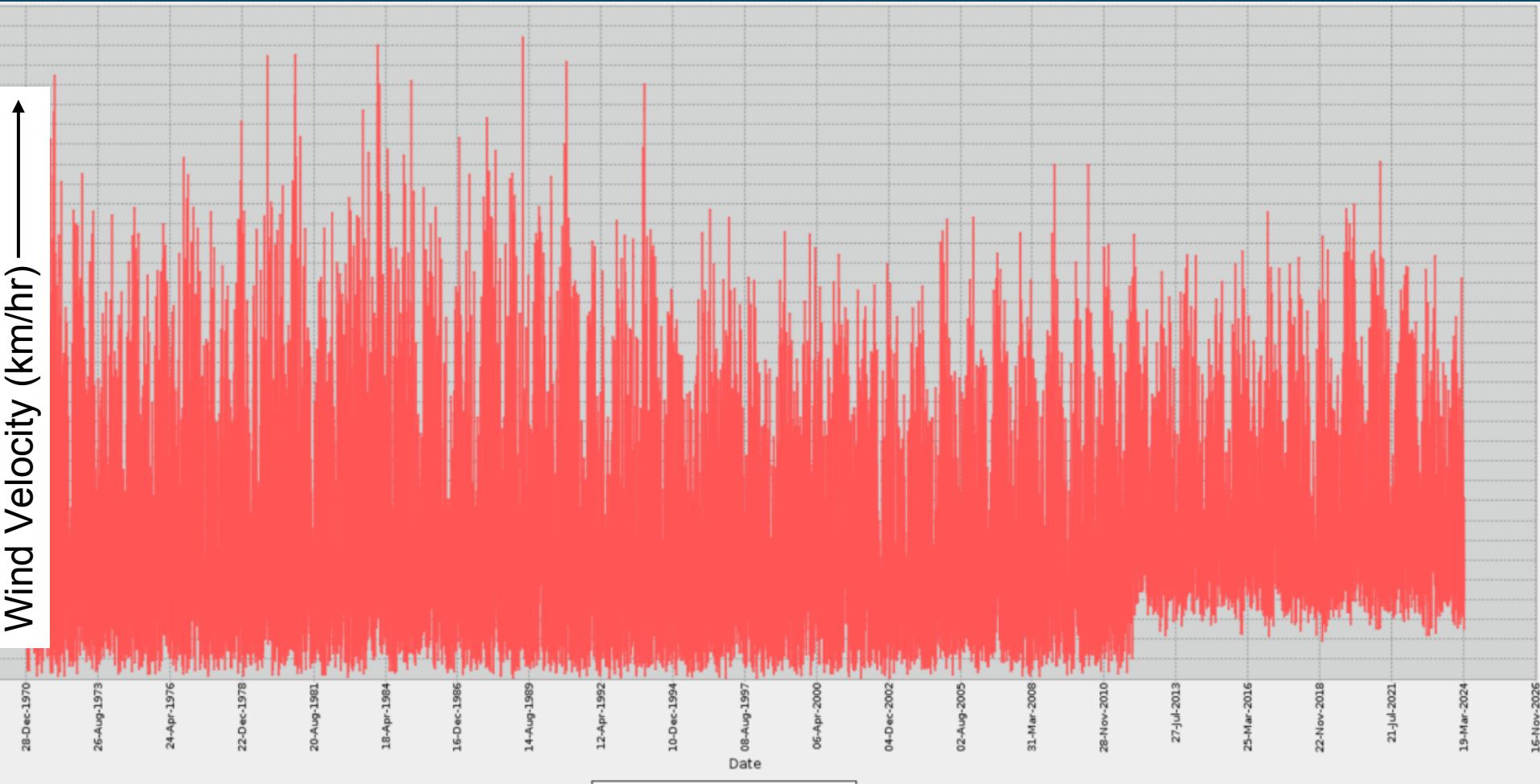
## Foundational Assumptions

“The Plan provides a foundation to position the community to be resilient to the challenges of **extreme weather**.”

Page 22: “The more GHGs that are released, the hotter our planet gets.”

Page 23: “[Climate] **hazards** will become more frequent and severe between now and the 2080s...”

# Wind Speed at Lethbridge, 10 m average (km/hr) 1971 to 2023

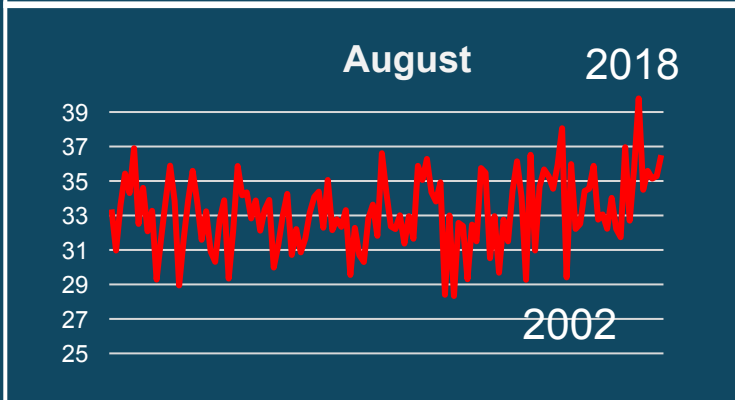
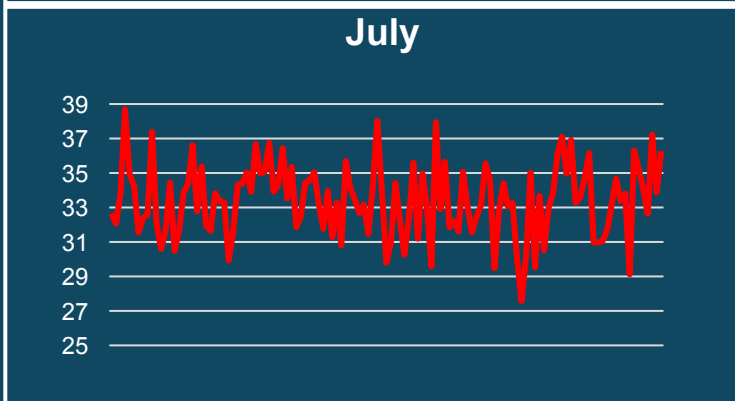
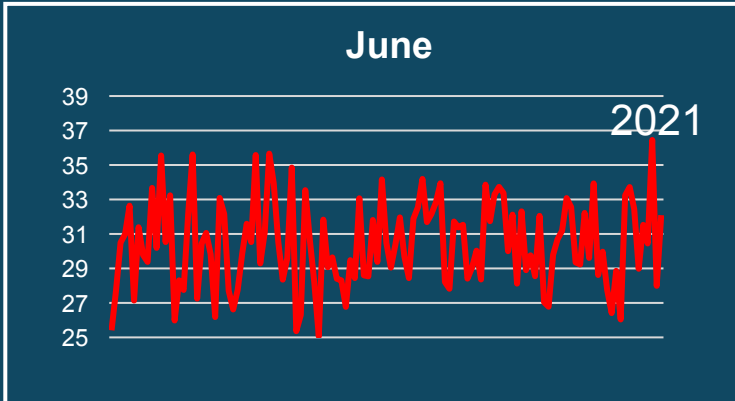


<https://acis.alberta.ca/township-data-viewer.jsp>

# Extreme Temperatures, 1902 to 2023

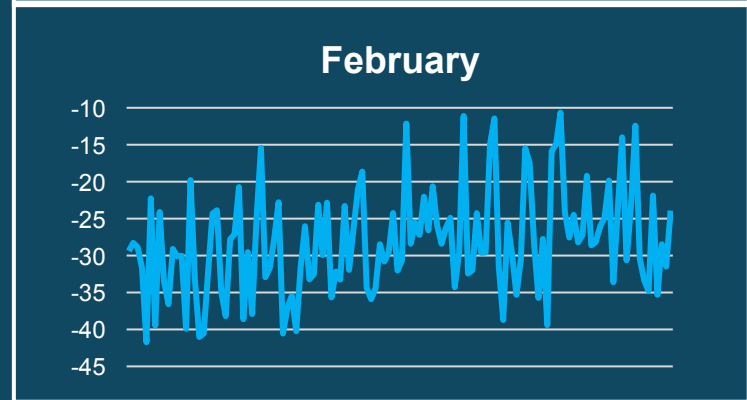
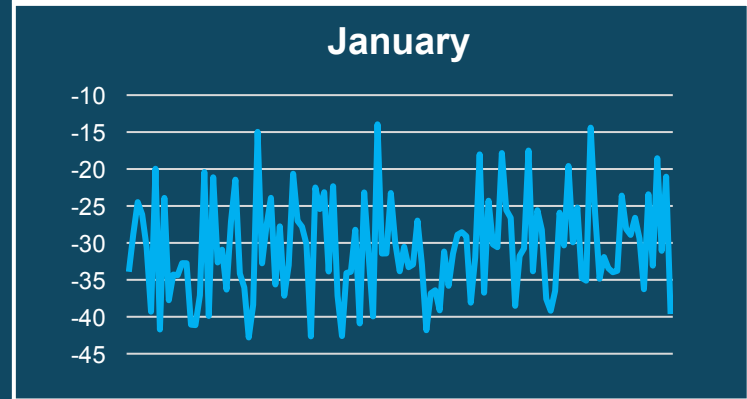
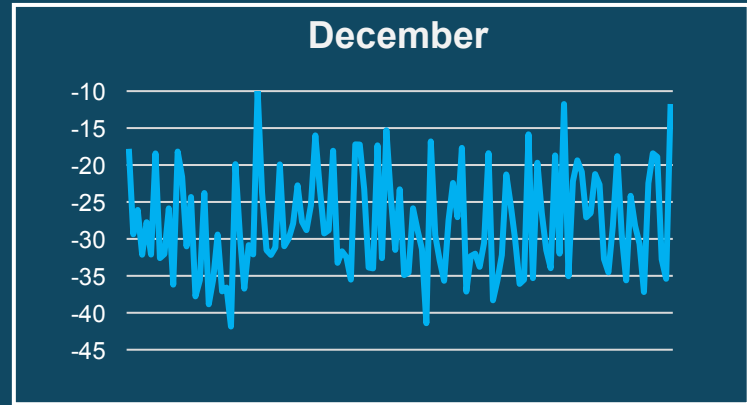
## Hottest Summer Temperatures

°Celcius ↑



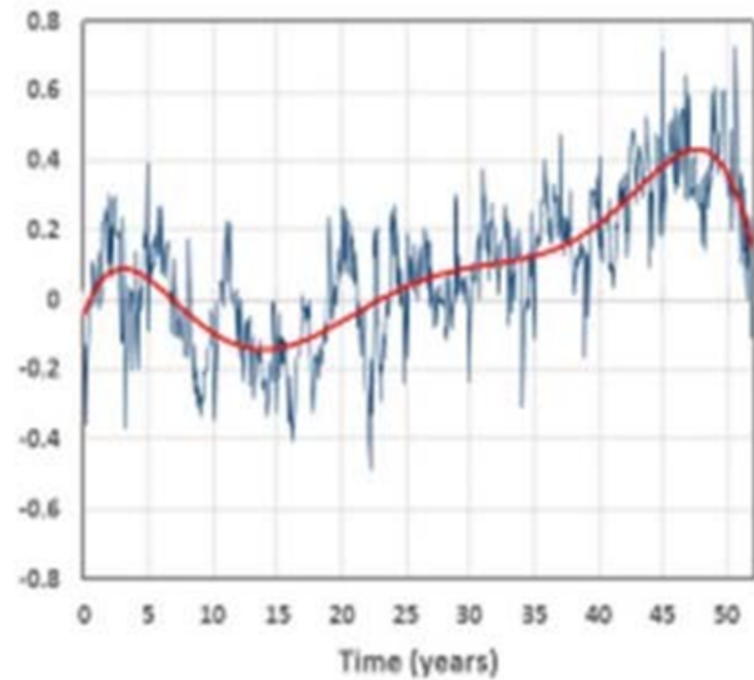
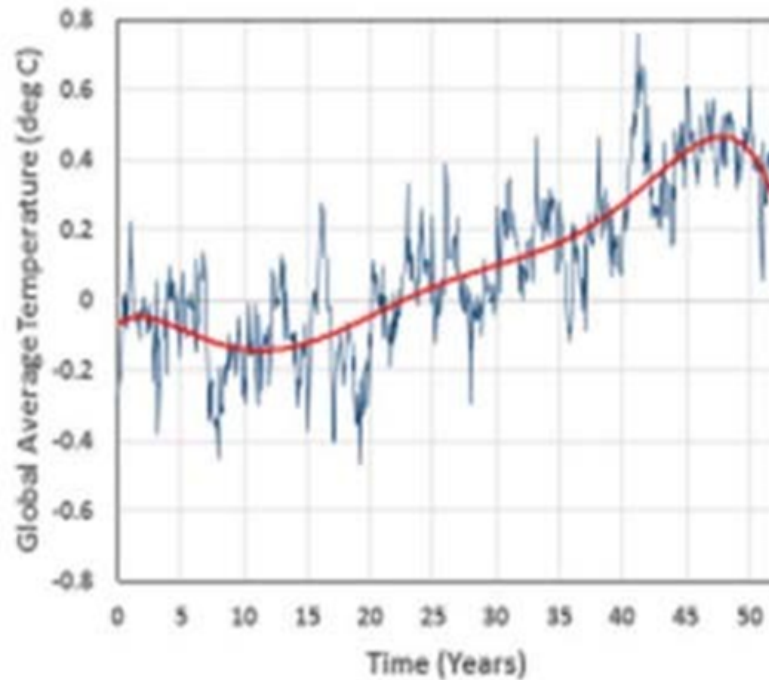
## Coldest Winter Temperatures

°Celcius ↑



# Increase in Global Average Temperature Over 51 Years Identical before 1950 and after 1950

Global Average Temperature Records for Two 20th-Century Warming Periods  
Which is 1895-1946 (Natural); Which is 1957-2008 (Anthropogenic)??



Temperature and time scales for the two time series are identical. One time series has been displaced vertically to give equal means over the 52-year warming period.

# City of Lethbridge Risk Assessment The Foundation of our Climate Strategy

The First Rule of Modeling: Garbage In = Garbage out

“RCP 8.5 is a grossly exaggerated forcing scenario”



City of Lethbridge

Figure 3-1 City of Lethbridge Climate Projection Summary

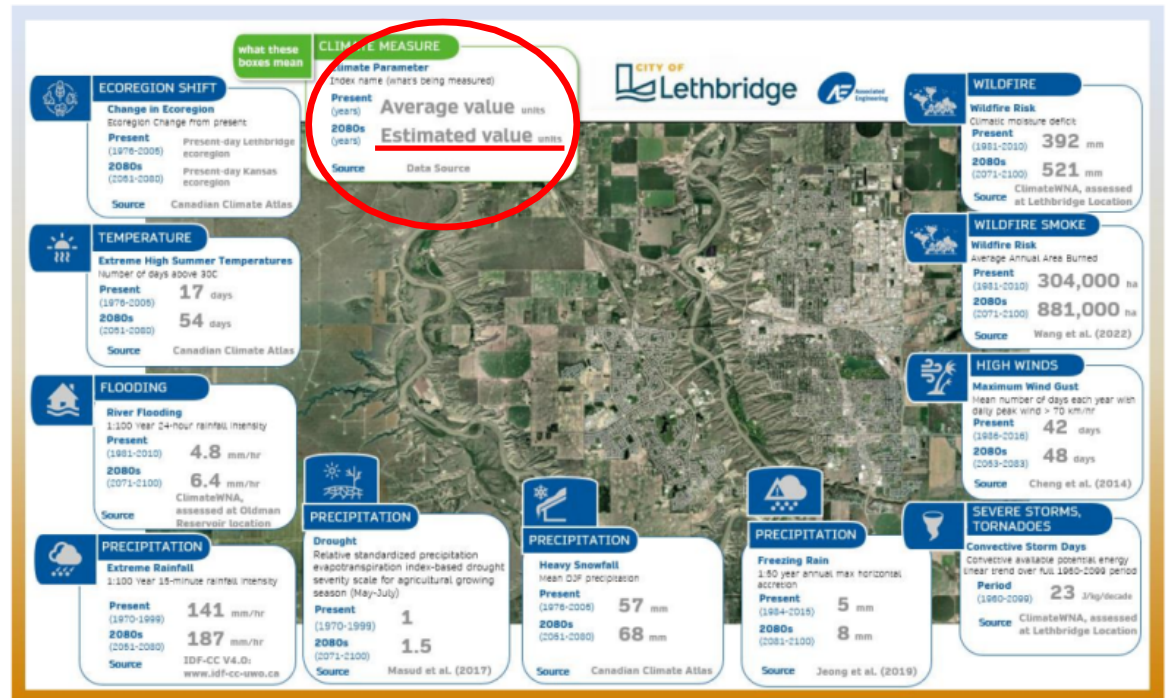
REPORT

City of Lethbridge

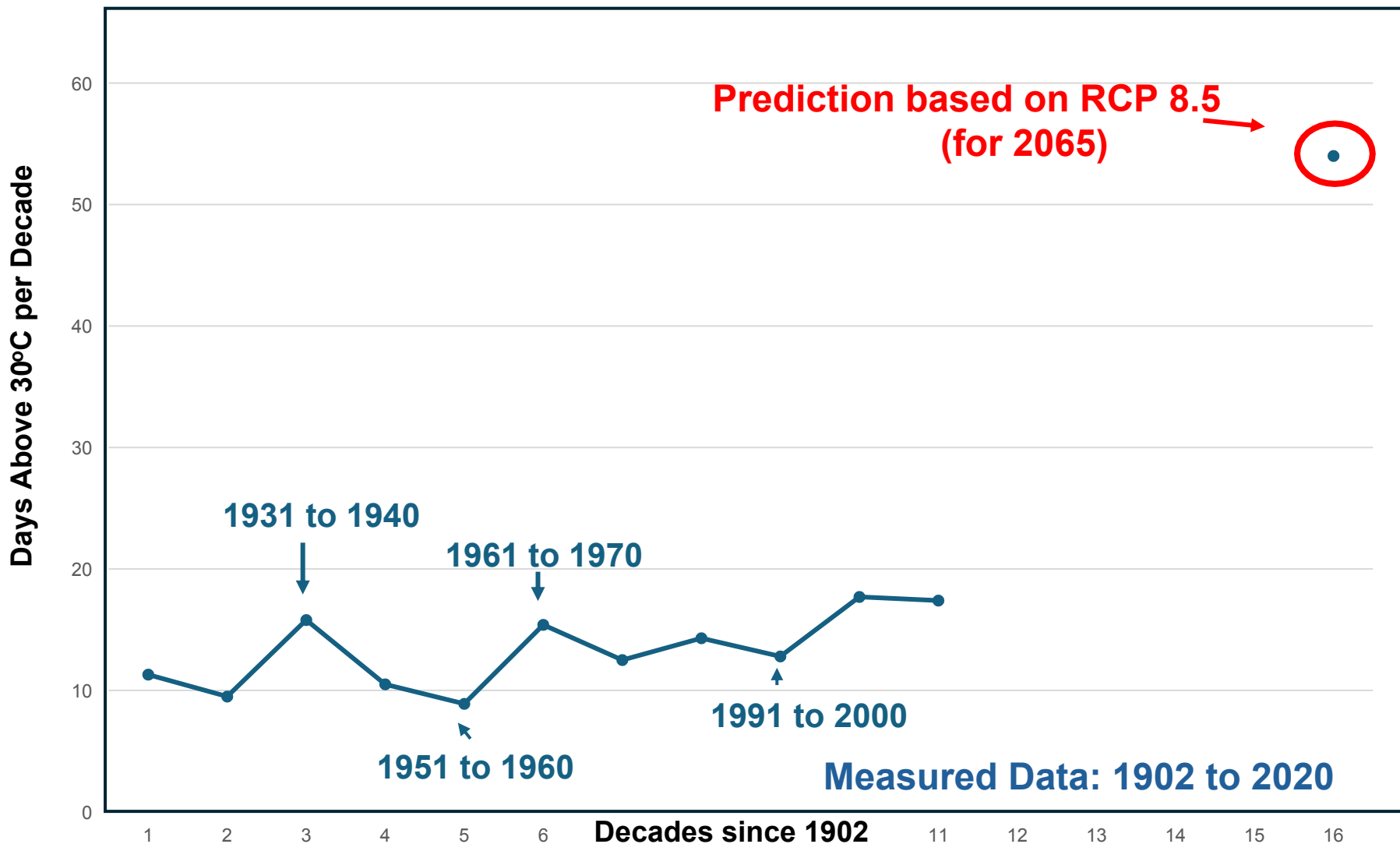
Climate Adaptation Strategy and Action Plan - Risk Assessment Report



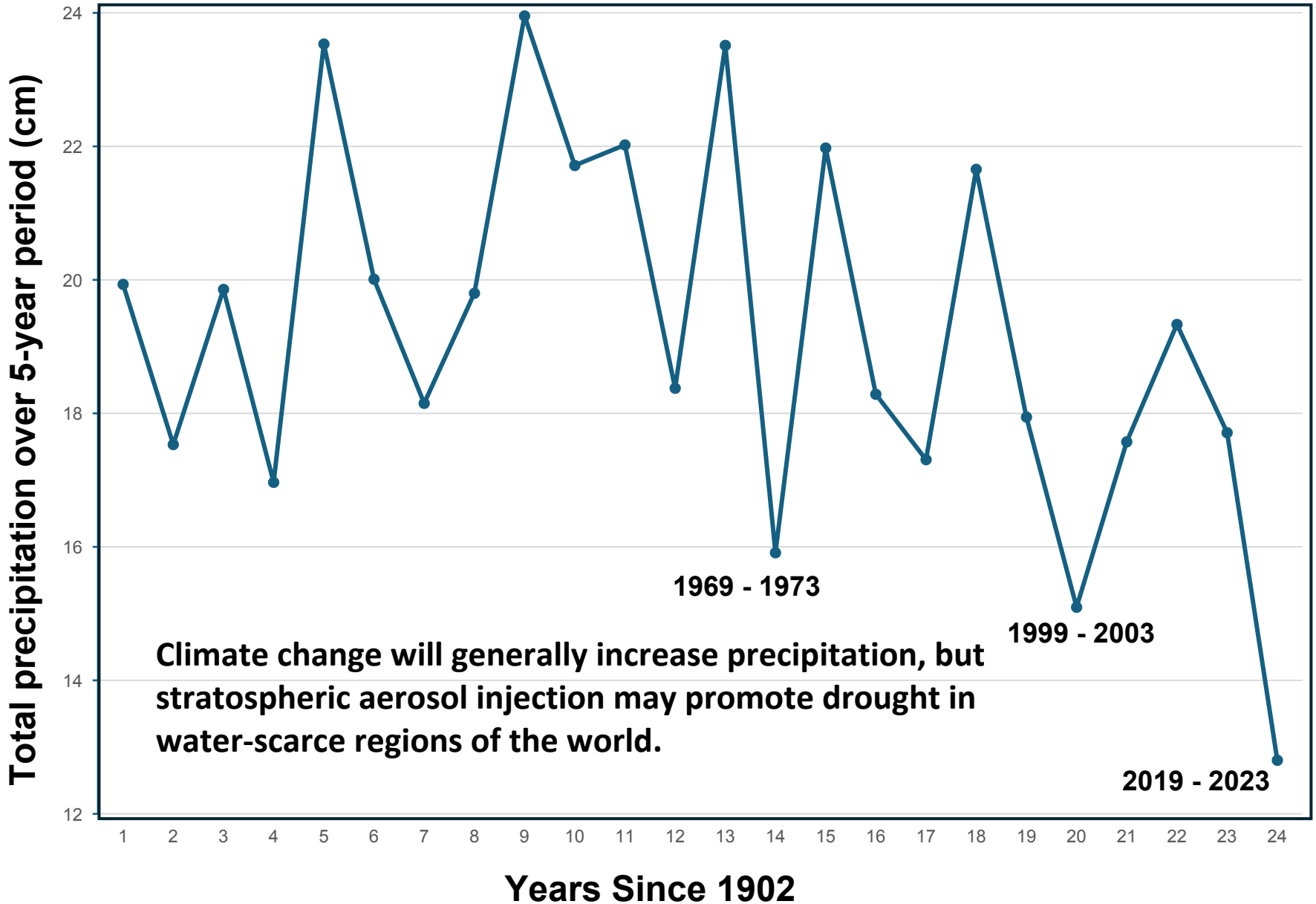
NOVEMBER 2023



# Average Number of Days Above 30°C per Decade



# Total precipitation Over 5 Year Period Since 1902



# The Partners for Climate Protection Program

2021: Completed Milestone 2: Set an emission reduction target for corporate emissions of 40% below 2018 levels by 2030.

## Lethbridge City Council Adopted Resolution

City Council Meeting held  
Monday, February 5, 2007



625-C Susan Dakin, Environmental Services Manager, re: Initiating Commitment to Climate Change Action and Energy Efficiency

**Alderman B.A. Lacey:**

BE IT RESOLVED THAT the report from the Administration recommending that the City of Lethbridge communicate to the Federation of Canadian Municipalities (FCM) its support for and interest in participating in Partners for Climate Protection (PCP)

AND FURTHER BE IT RESOLVED THAT the City oversee the implementation of the PCP Milestone Framework for Lethbridge and that Environmental Services be the point of contact for PCP

AND FURTHER THAT Environmental Services report back to City Council on its PCP activities from time to time

AND FURTHER THAT the report be received as information and filed

AND FURTHER THAT the recommendations be approved and that Dr. Dakin be thanked for her presentation.

**In Favour:** Mayor Tarleck, Alderman Dodic, Alderman Iwaskiw, Alderman Lacey, Alderman Parker, Alderman Vaala

**Opposed:** Alderman Ward, Alderman Weadick, Alderman Wickersham

CARRIED

### *Excerpt from Minutes*

*City Council Meeting held Monday, March 9, 2020*

6.3. Partners for Climate Protection

580

**J.A. Coffman:**

WHEREAS the City of Lethbridge is a member of the Partners for Climate Protection Program which assists members in the reduction of greenhouse gas emissions; and

WHEREAS the City of Lethbridge would like to encourage and promote continuous improvement with respect to environmental goals and targets; and

WHEREAS Administration presented to Council on March 2nd the results of the baseline for greenhouse gas and targets for the Corporate Milestone 2 of the Partners for Climate Protection Program; and

**THEREFORE, BE IT RESOLVED THAT Council adopt a reduction of 40% of the 2018 total corporate emissions of Greenhouse Gases by the year 2030; and**

FUTHER BE IT RESOLVED THAT the City Manager provide Council a report on the City's emission reduction efforts before December 31, 2022 in order to assess progress, including plans for new initiatives through to 2030; and

FURTHER BE IT RESOLVED THAT an annual update of the status of the approved target is provided to City Council.

In Favour: C.A. Spearman, B.A. Crowson, A.M. Campbell, J.H. Carlson, J.A. Coffman, J.P. Mauro, S.R. Miyashiro, R.K. Parker

Opposed: B.E. Hyggen

----- CARRIED

# How Will We Cut our Emissions in Half by 2030?

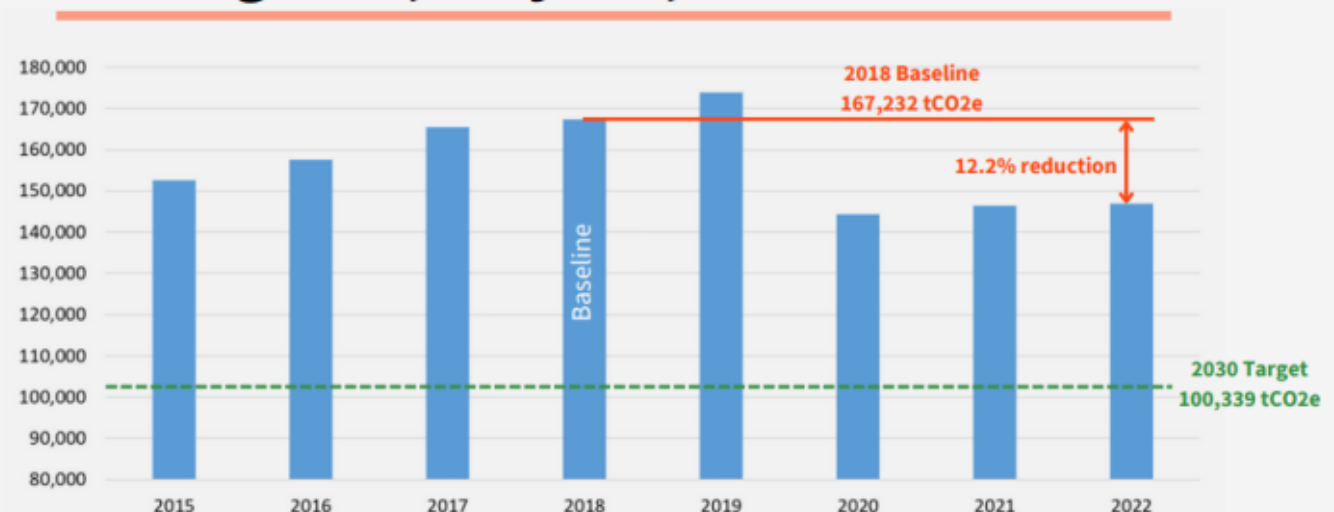
## Power Sources in AB (2023)

- 57% natural gas
- 22% wind
- 8% solar
- 6% coal
- 4% hydro
- 3% other

**The Energy Grid:** “Solar & Wind must be backed up at least 50% by Coal or Gas”



## Programs, Projects, and Initiatives



### Corporate Greenhouse Gas Emissions (tCO<sub>2</sub>e)

Using the Partners for Climate Protection (PCP) methodology

# Electric Vehicles are not “zero-emissions vehicles”

More GHG reductions will be achieved by transitioning to efficient gas vehicles

- Mining: 500,000 lb of minerals to make one battery
- Electric grids can't keep up
- Batteries have short lives and don't work well in the cold

Initiatives	Estimated Implementation Cost	Estimated GHG savings (tCO <sub>2</sub> e)	Cost per tCO <sub>2</sub> e
Enabling	Unknown	Unknown	Unknown
<b>EVs (1)</b>	<b>\$6 M</b>	<b>340</b>	<b>\$17,647</b>
Solar (3)	\$8.4 M	5,350	\$1,570
Other (26)	\$8 M	1,265	\$970
<b>Total</b>	<b>\$22.4 M</b>	<b>13,955</b>	<b>\$1,606</b>

# Is Net Zero Achievable with Solar and Wind?

- **Loss of Land**
  - Germany is to be covered with 1.4 million hectares of solid solar panels
  - Bare wire high voltage transmission lines will require massive amounts of land
- **Toxic Waste of used solar panels**
- **Coal & Gas Still Required for at least 50% of the grid**



Where will we grow food?



# There is So Much Money to be Made From Net Zero!

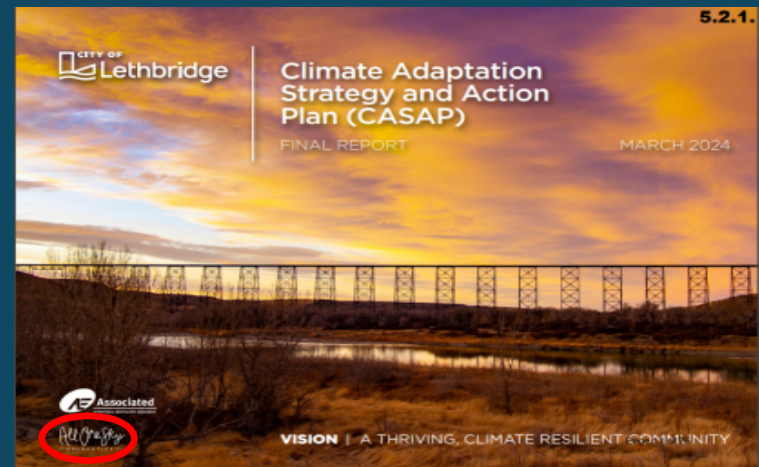
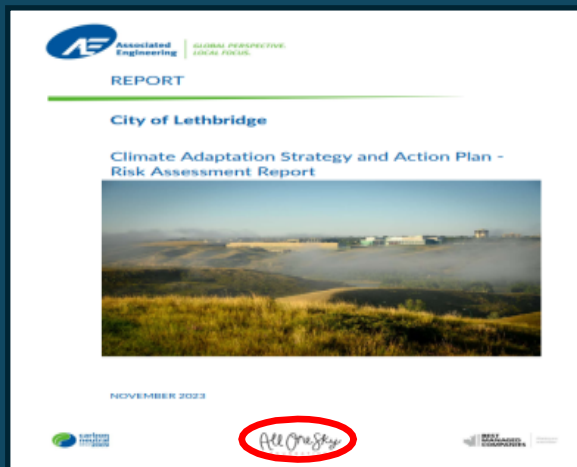
The *All One Sky* ‘Charity’ is deeply connected with

*Cleantech and Innovation for the Delphi Group*

**All One Sky:** “We help people be part of a low-carbon, resilient future.”

## *Cleantech and Innovation for the Delphi Group*

- “...the potential market for green technologies in the developing world alone is US **\$2.5 trillion.**”



# Climate Change is BIG BUSINESS

**“A complex financial mechanism designed to save the predator class under the guise of ‘saving the planet’**

**“\$100 Trillion of investment will be needed over the next three decades for a clean energy future” (Mark Carney at COP 26)**

**“The carbon credit system is probably the biggest scam to ever be visited on mankind in history” (Mordecai Ogada, Kenya)**

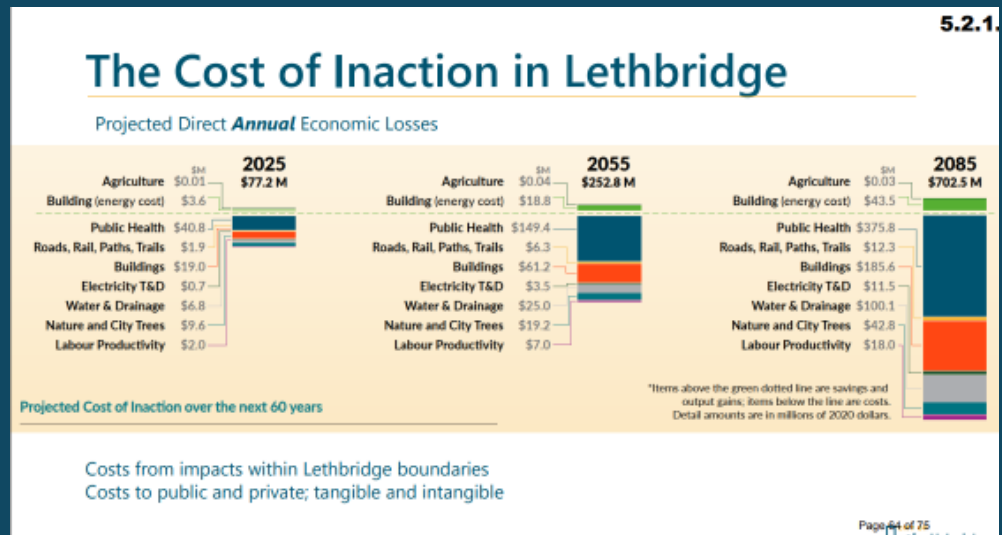
**The Carbon Tax – a tax on primary production**

# Where is the Cost of Action Analysis?

How were costs of inaction calculated?

How can we predict costs 60 years in advance?

What are we neglecting while we do the bidding of FCM/ICLEI?



# Recommendations for the CASAP and other Climate reports

- 1) Ensure that the CASAP and other reports are based on **plausible risk assessments** created with scientifically defensible values for RCP and climate sensitivity.
- 2) Ensure that **public engagement processes** do not use the top-down Delphi technique.
- 3) Change **'educational' events** from top-down messaging to events that encourage alternative ideas, discussion, and critical thinking.
- 4) **Re-consider the switch to electric vehicles.**
- 5) Stop collecting funds to carry out the agenda of unelected international privately-funded entities. Ensure that recommended initiatives and actions are thoughtfully selected and designed to **benefit the people, the environment and the economy of Lethbridge**, based on a thorough analysis of the true costs and benefits.



# Recommendations for the CASAP and other Climate reports

6) Clarify – **Who IS responsible** for the recommended climate change strategies, plans and actions??

The Partners for Climate Protection Program doesn't accept responsibility

ICLEI Local Governments for Sustainability CANADA

FCM FEDERATION OF CANADIAN MUNICIPALITIES

Local Governments for Sustainability CANADA

Partners for CLIMATE PROTECTION

Canada

This project was carried out with assistance from the Green Municipal Fund, a Fund financed by the Government of Canada and administered by the Federation of Canadian Municipalities, and from ICLEI – Local Governments for Sustainability (Management) Inc.

Notwithstanding this support, the views expressed are the personal views of the authors, and ICLEI Canada, the Federation of Canadian Municipalities and the Government of Canada accept no responsibility for them.

The authors of the CASAP report don't accept responsibility

responsibility of such third parties. The City of Lethbridge and Associated Engineering Alberta Ltd. accept no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

# Recommendation 7: Rescind the resolution to participate in the Partners for Climate Protection Program

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