



BURNSIDE



# Mulmur's Community Energy Plan (CEP)

# Why Is Mulmur Preparing a Community Energy Plan?



The energy we use in Mulmur is causing impacts on our atmosphere and natural environment ecosystems, but not all types of energy consumption has the same impact on the environment.



Emissions from hydrocarbon fuels such as: gasoline, diesel, fuel oil, propane, natural gas for transportation, heating, cooling, etc. are proven to be major contributors to climate change by producing greenhouse gases.



Climate Change is a fact and the scientific studies not only confirm it is happening right now, but that it is being caused by humans. Peer reviewed studies that confirm these findings can be found at:



IPCC, Environment Canada, see: <https://www.ipcc.ch/sr15/> and <http://www.changingclimate.ca/CCCR2019>



The federal government recently declared a climate emergency.



# Why Is Mulmur Preparing a Community Energy Plan? (continued.)



So far Mulmur has largely been spared the effects of climate change on weather events happening around the world, but this is not expected to last.



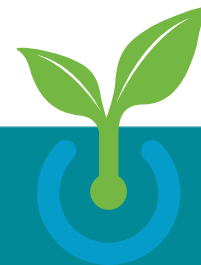
We are only beginning to see the impact of the climate changes anticipated.



We must both mitigate the effects of climate change by dramatically reducing the use of hydrocarbon fuels



Adapt to prepare for the changes that are expected.

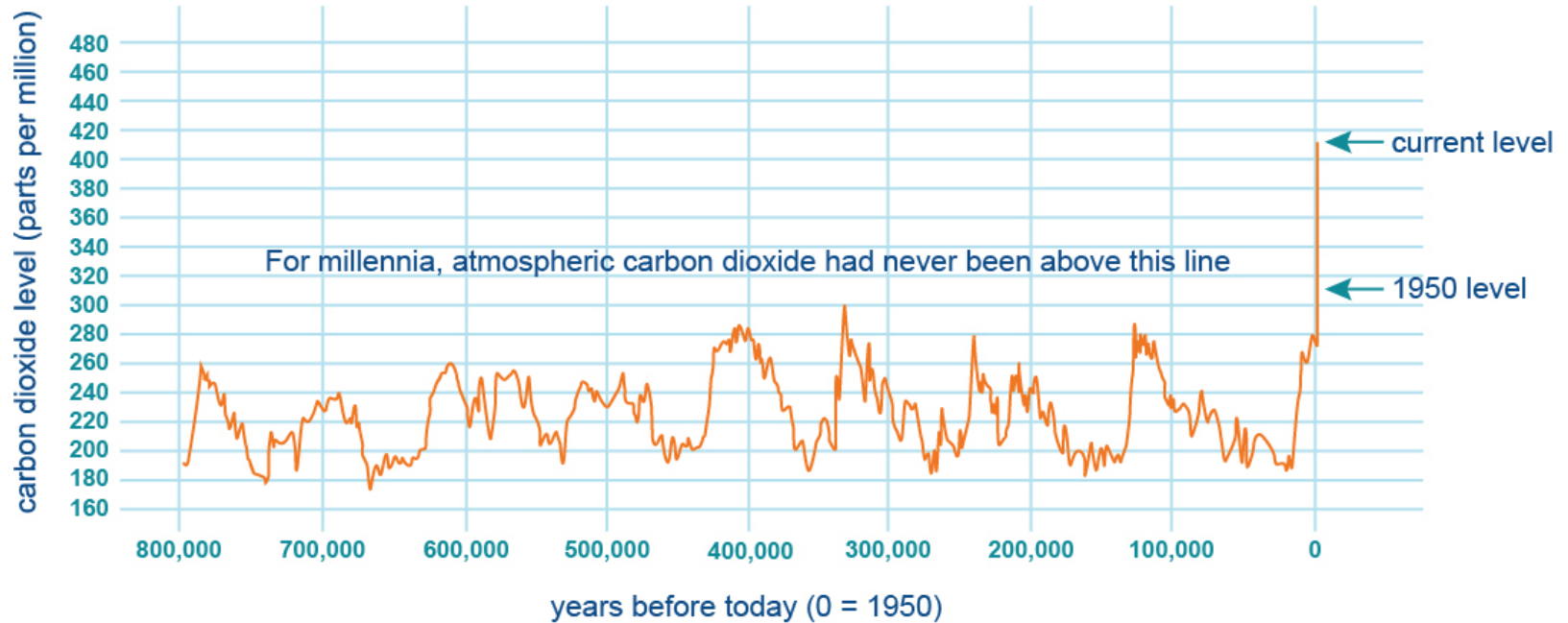




The slides which follow provide a snapshot of carbon dioxide increases that have occurred in the past 800 years in comparison with dramatic rises from 1950 to today. In the past temperatures and environmental impacts have mirrored these changes.



# Rising CO<sub>2</sub>e (Carbon Dioxide Equivalent) Levels

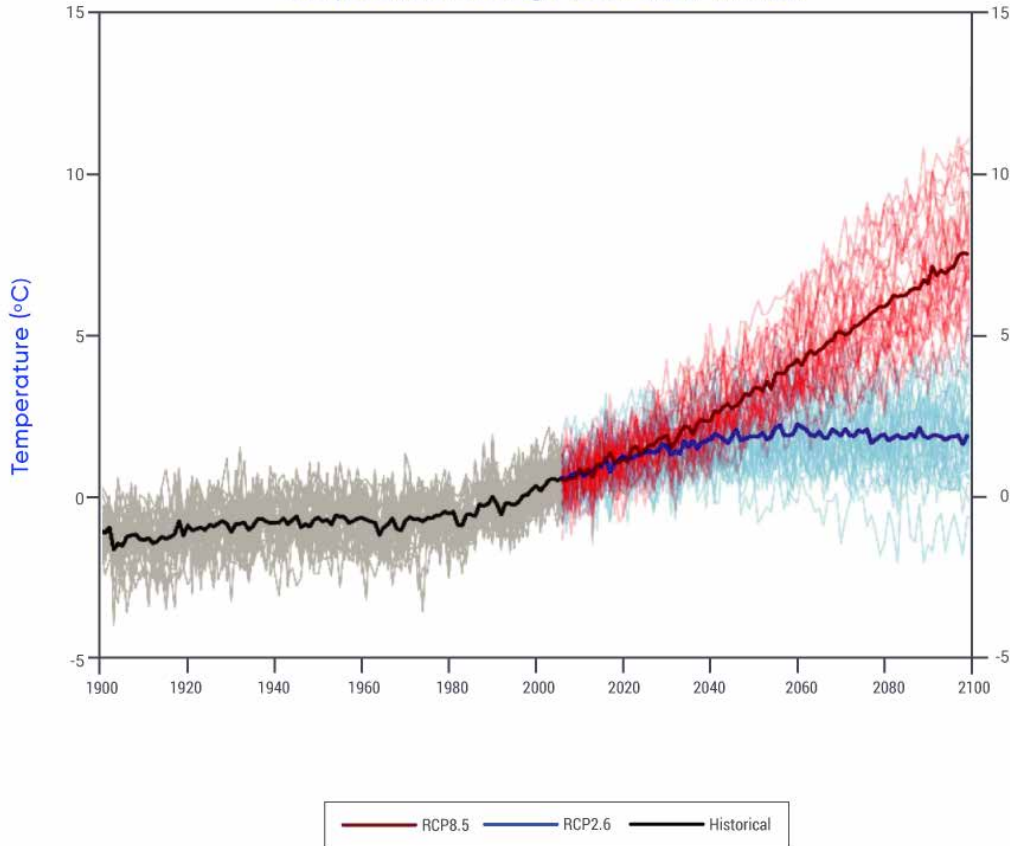


Credit: Luthi, D., et al.. 2008; Etheridge, D.M., et al. 2010; Vostok ice core data/J.R. Petit et al.; NOAA Mauna Loa CO<sub>2</sub> record/NASA



# Canada's Projected Temperature Changes

Temperature Change (Canada): Annual

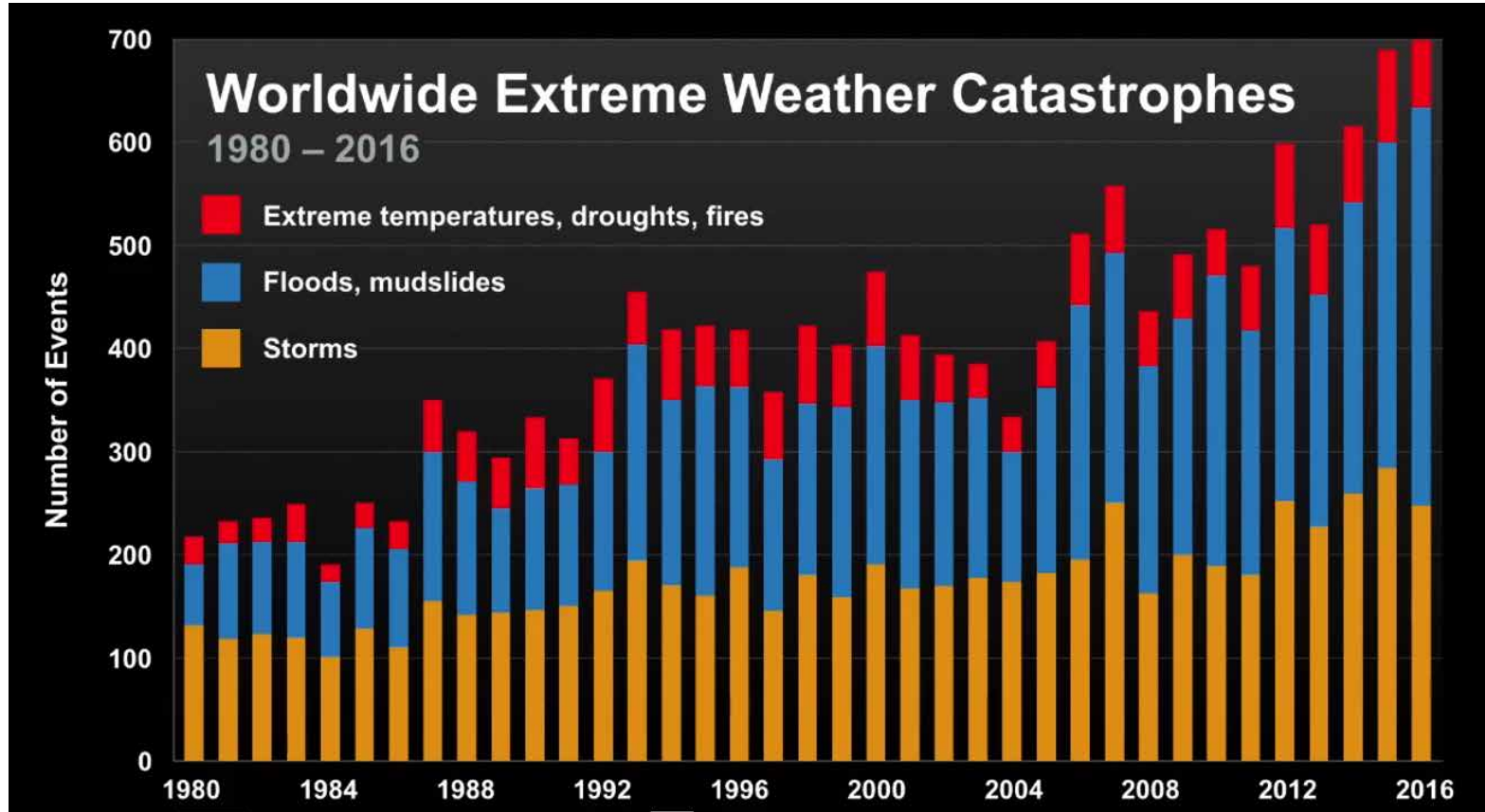


Only the low emission scenario (RCP2.6) below is consistent with holding the increase in the global average temperature to below 2°C above pre-industrial levels. This scenario requires global emissions to peak almost immediately, with rapid and deep reductions thereafter.

<https://changingclimate.ca/CC/CR2019/chapter/executive-summary/>



# The Impact of Climate Change



Al Gores- The Truth in 10



- Mulmur is focusing not only on actions that will help mitigate climate change effects, but development of a plan that will provide **economic benefits** to our residents and businesses. The following were identified as priority objectives of the community energy planning process.
- These objectives were approved by Mulmur and submitted as part of its funding applications to the Federation of Canadian Municipalities and Ontario Ministry of Energy.





# What are the Objectives of this Community Energy Plan?

**Economic Growth:** While a significant portion of money is directed to paying energy costs in a community, few of the energy dollars spent by residents and businesses remain within that community. Mulmur's economic objective is to implement strategies that will keep more energy dollars in the community and thereby spur local economic activity.



**Cost Savings:** Through education and energy conservation measures we plan to demonstrate the benefits to reducing energy use.



# What are the Objectives of this Community Energy Plan? (continued)



**Energy Security:** Rural living is generally more energy intensive than urban living and with fewer collective options to reduce carbon. Developing energy strategies which can buffer the community from uncertainty over evolving climate pricing and policies, and uncertain energy markets, both of which could impact local economies and are key objectives. Aligning the built environment, energy and land use growth planning: To help identify the best possible energy options to create a complete community and enhanced mobility.



**Protecting the Environment:** Canadian communities play a particularly important role in national and global efforts to address climate change as they have direct or indirect control of 60 percent of Canada's total GHG emissions. CEPs, and the associated energy conservation can consequently drive significant emissions reductions.



# Setting Emission Targets

**Ontario** - Reducing its GHG emissions by 30% below 2005 levels by 2030-  
Made-in-Ontario Environment Plan

**Canada** - Reducing its GHG emissions by 30% below 2005 levels by 2030-  
Government of Canada.

**International** - Global temperature 1.5 below (1850-1900)-  
Intergovernmental Panel on Climate Change (IPCC)





# The Cost of Carbon



Political Instability

Floods and Mudslides

Wildfires

Droughts

Storm Damage

Ocean Acidification

Climate Refugees

Species Extinction

Melting Glaciers

Famine

Water Scarcity

Ecosystem Loss

Infectious Disease's

Rising Sea Level



# We Need Your Help!

- The Boards show the estimated consumption of energy by sector in Mulmur
- We have provided lists of potential solutions for each sector that will not only save you money, but help protect the environment
- Please join in the efforts to prevent Climate Change.



# Thank you for attending!

Burnside and  
Mulmur Staff are  
available to help  
answer your  
questions

Mulmur's CEP Logo

