



# THE CLIMATE REALITY

## It is an Emergency

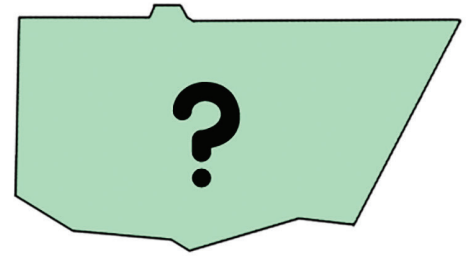
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- Climate change is already affecting Brampton through increases in local flooding, snow, ice, heat waves, wind storms, warmer winters, and a rise of vector-borne diseases.
- Carbon based emissions from fossil fuels (e.g. natural gas, coal, gasoline, diesel etc.) contribute to the global warming temperatures that worsen climate change. These emissions are known as Greenhouse Gases (GHG).
- The scientific community warns that the consequences of climate change for all living things will become more severe if the average global temperature continues to rise. The Paris Climate Agreement aims to limit global average temperature increase to 1.5°C, which will require global carbon emissions to be cut by at least 45% from 2010 levels by 2030, and to zero by 2050.
- Along with 195 other participants, Canada committed through the U.N. Paris Climate Agreement to reduce its GHG emissions by 80% from 1990 by the year 2050
- Canada is one of the top ten GHG emitters in the world and one of the top five emitters per capita.
- All levels of government in Canada, including the City of Brampton and the Region of Peel, are implementing actions to mitigate climate change. We are living in a Climate Emergency and need an urgent response to climate change now.
- Brampton's CEERP is a climate mitigation plan and is a call to action for all parts of our community to take steps that reduce our contributions to global climate change.
- Addressing the Climate Emergency will require Brampton to try to achieve world-class energy efficiency and community design standards.

**Working together, Brampton's residents, businesses, institutions, community organizations, and local governments can reduce the local impacts of climate change while maximizing the social, economic, and environmental opportunities and benefits of climate actions to create a healthier, stronger, and more resilient city.**

### **Our Energy Transition is Our Climate Solution**

# WHAT WILL CLIMATE CHANGE LOOK LIKE IN BRAMPTON?



## CHANGES

## EFFECTS

## COMMUNITY IMPACTS



Increase in average summer temperatures and more frequent and longer heat waves



Heat islands  
Health issues

Increased cost to cool buildings  
Increased healthcare costs  
Socioeconomic disparity



Increase in rainfall and storm intensity



Increased flooding  
Erosion

Cost of disaster relief  
Cost of infrastructure upgrades  
Decrease in water quality  
Potential for loss of land  
Displacement and monetary costs for residents



More unpredictable seasons



Disrupted growing season  
Desertification of agricultural fields  
Disrupted season dependent industries

Increased cost of food  
Increased food insecurity  
Reduced equity and health  
Disrupted economy  
More economic uncertainty



Increase in winter storm severity



Snow dumps  
Cold snaps

Cost of snow removal  
Increase in infrastructure maintenance costs  
Less economic activity  
Increase in social disparity  
Increase in energy use and associated costs



Milder winters



More disease-spreading pests survive  
More invasive species survive

More human diseases and illnesses  
Negative economic impact to affected industries (e.g. agriculture, lumber)



Increase in average temperatures and changes to local climate



Changes to geographic range of wildlife  
Changes to habitat and the distribution of resources  
Changes to how species interact

More suitable habitat for invasive species  
Extirpation or extinction  
More disease outbreaks