



CLIMATE CHANGE ACTION CITY OF HAMILTON

Food Advisory Committee
February 11, 2020

Hamilton's Climate Change Emergency

WHAT DOES IT MEAN?

Climate change is a global and local emergency. In March 2019, Hamilton joined 435 municipal councils across the world representing 36 million citizens to declare that we need immediate action to achieve the transformative change required for our planet to prevent global averages temperature rise of 1.5°C.



GLOBAL SCIENTIFIC CONSENSUS

97% of climate scientists around the world agree that 1.5°C is the upper limit of warming we can tolerate before impacts become so great as to threaten the stability of human civilization.

They also warned, in an [International Panel on Climate Change \(IPCC\) report in October 2018](#), that if global carbon emissions are not halved by 2030 and eliminated by 2050, we will have lost the opportunity to hold warming to that level.

WHAT'S THE BIG DEAL WITH A FEW DEGREES?

1.5°C doesn't seem like a big change, does it? But much like a human fever or disease, it doesn't take a big change in average temperature to indicate a serious problem. Similar to a fever or disease if left untreated it could become fatal.

This informative video from leading atmospheric scientist Dr. Katharine Hayhoe demonstrates why: [What's the Big Deal With a Few Degrees?](#)

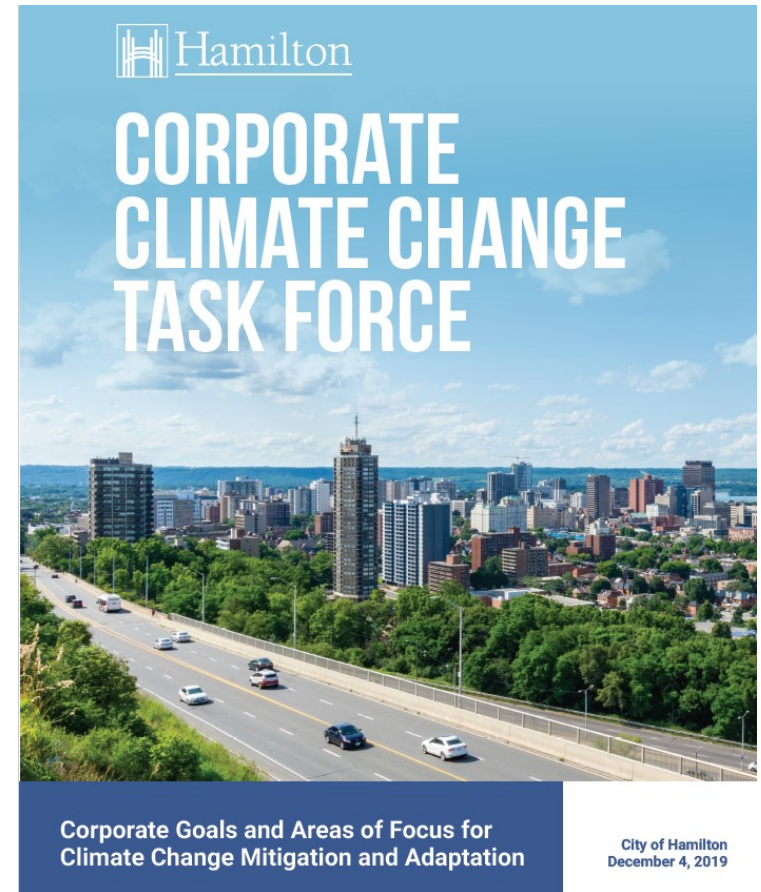


Council Direction

- March 27, 2019, Council declared climate change emergency and approved Accelerating and Prioritizing Climate Action motion
- June 17, 2019, Board of Health approved Report BOH19022 – Corporate Climate Change Task Force Response to the Climate Change Emergency
- June 26, 2019, Council approved the Establishment of Departmental Climate Change Workplans within the City of Hamilton Motion
- December 4, 2019, Council approved the Corporate Goals and Areas of Focus for Climate Mitigation and Adaptation

Purpose

- Centralize climate change reporting across the corporation
- Prioritize goals and areas of focus for climate mitigation and adaptation
- Identify key indicators for annual reporting
- Foundational report to empower staff



Corporate Goals and Areas of Focus

Natural Environment

Transportation

Active Transportation

Planning

Procurement

Natural Environment

Climate Adaptation

Diversity, Health, Inclusion

Education & Awareness

Canada's Greenhouse Gas (GHG) Emission Sources

Figure ES-2 Breakdown of Canada's Emissions by IPCC Sector (2017)*

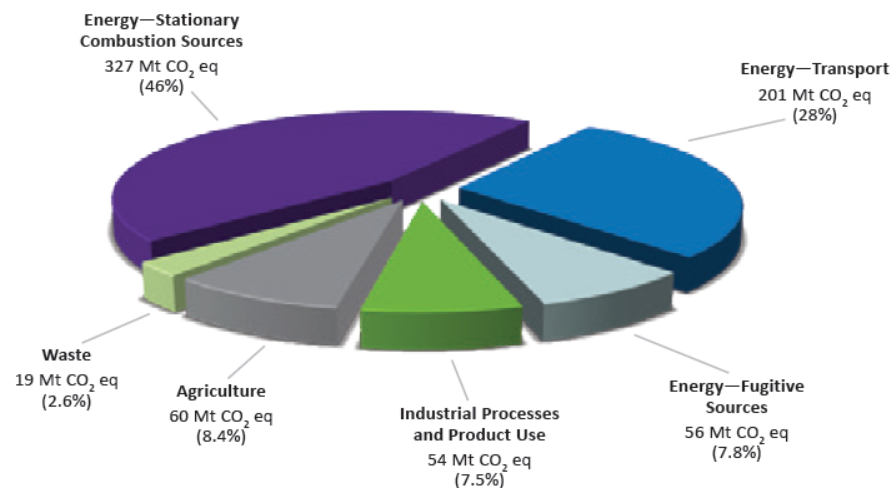
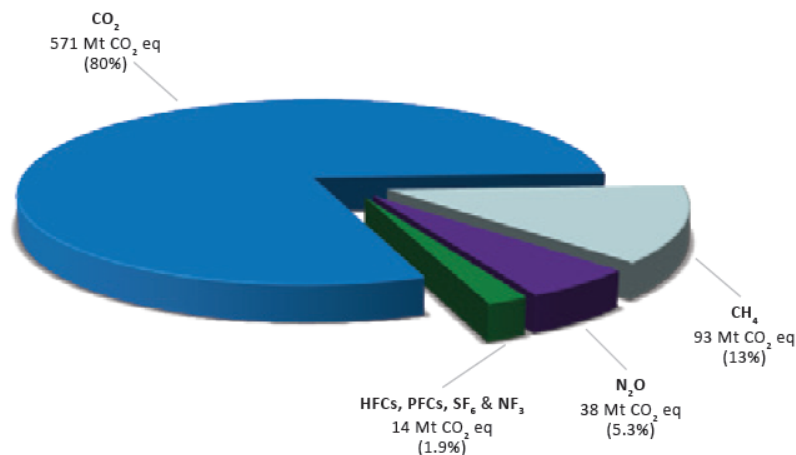


Figure ES-3 Breakdown of Canada's Emissions by GHG (2017)*

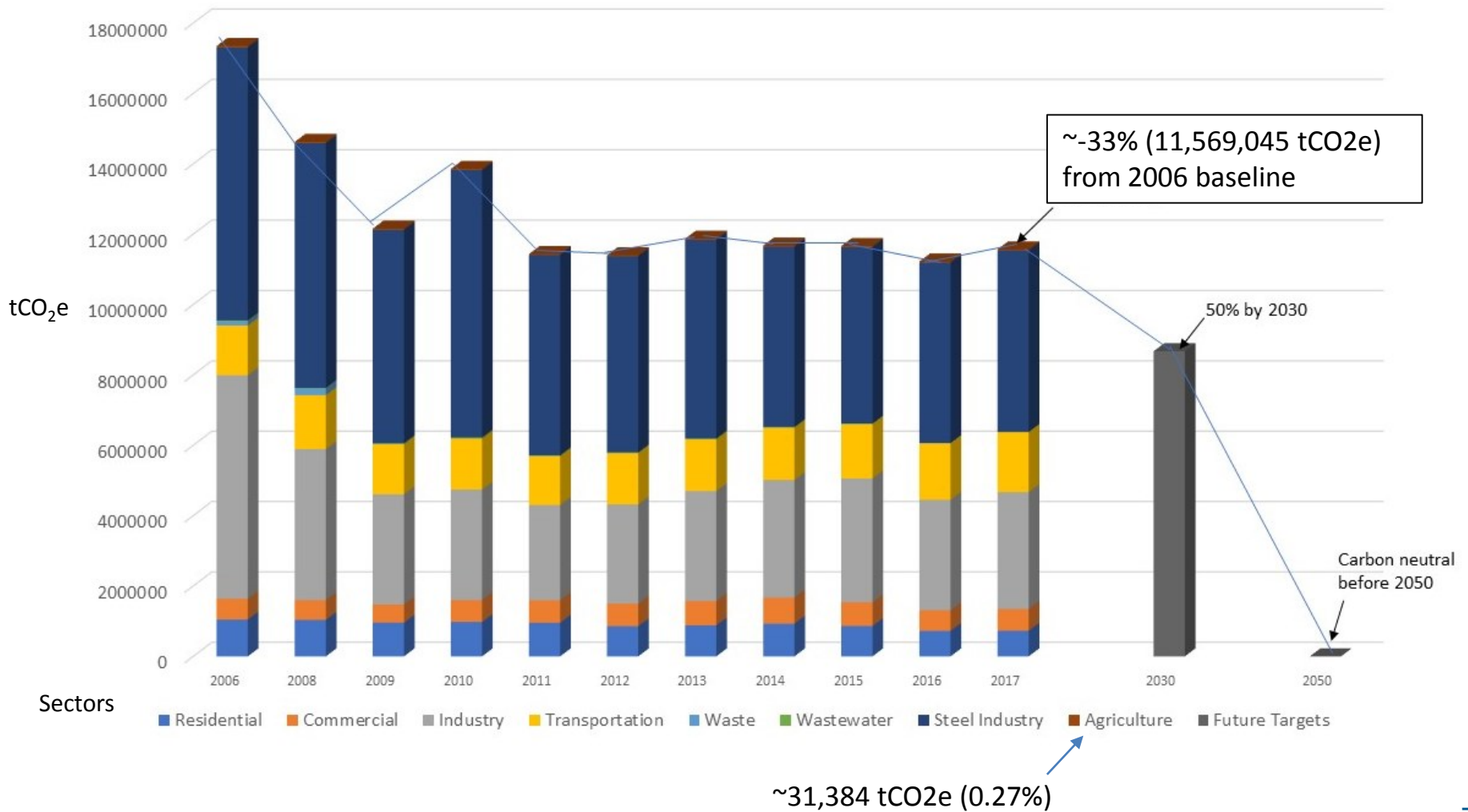


Total: 716 Mt CO₂ eq

*Note: Totals may not add up due to rounding.

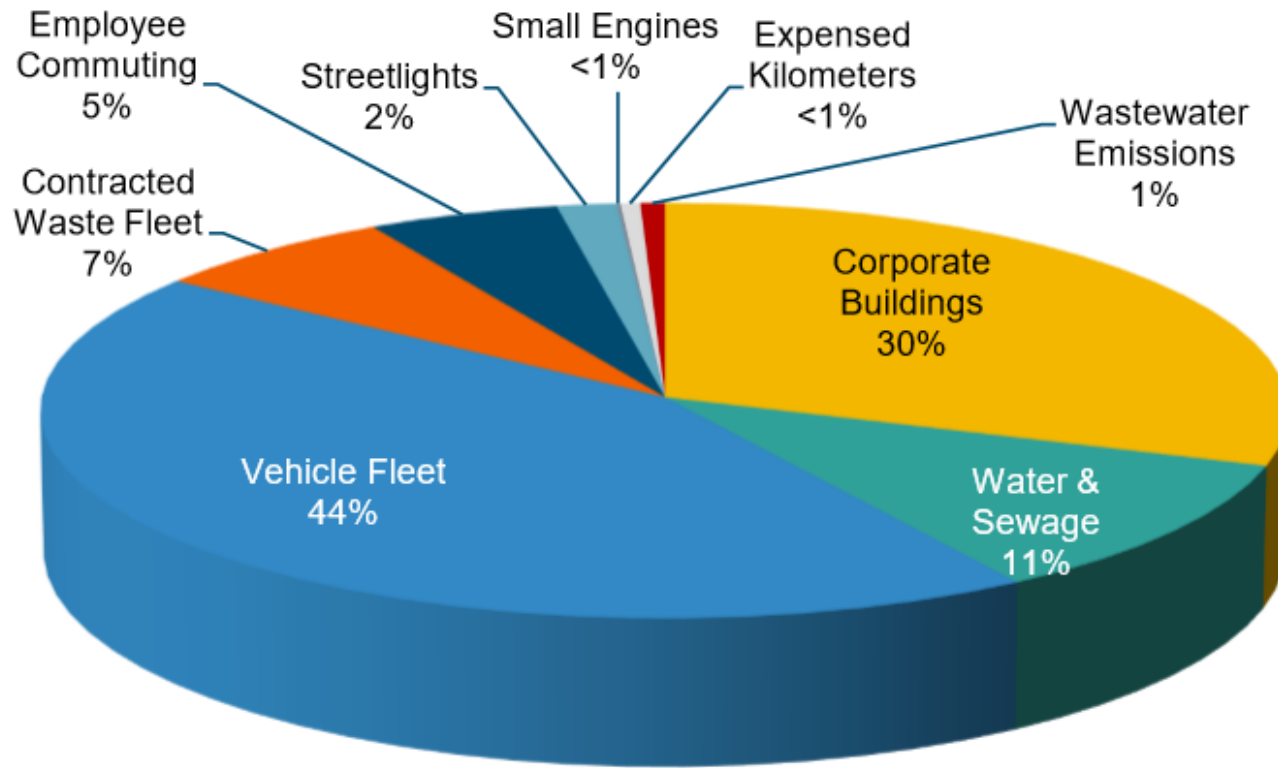
(National Inventory Report.(2019). 2019National Inventory Report 1990 -2017: Greenhouse Gas Sources and Sinks Canada Part 1. Retrieved from: http://publications.gc.ca/collections/collection_2019/eccc/En81-4-1-2017-eng.pdf)

Community GHG Inventory and Targets



Corporate Greenhouse Gas (GHG) Emission Sources

2017 Percent Tonnes CO₂e Total by Sector.

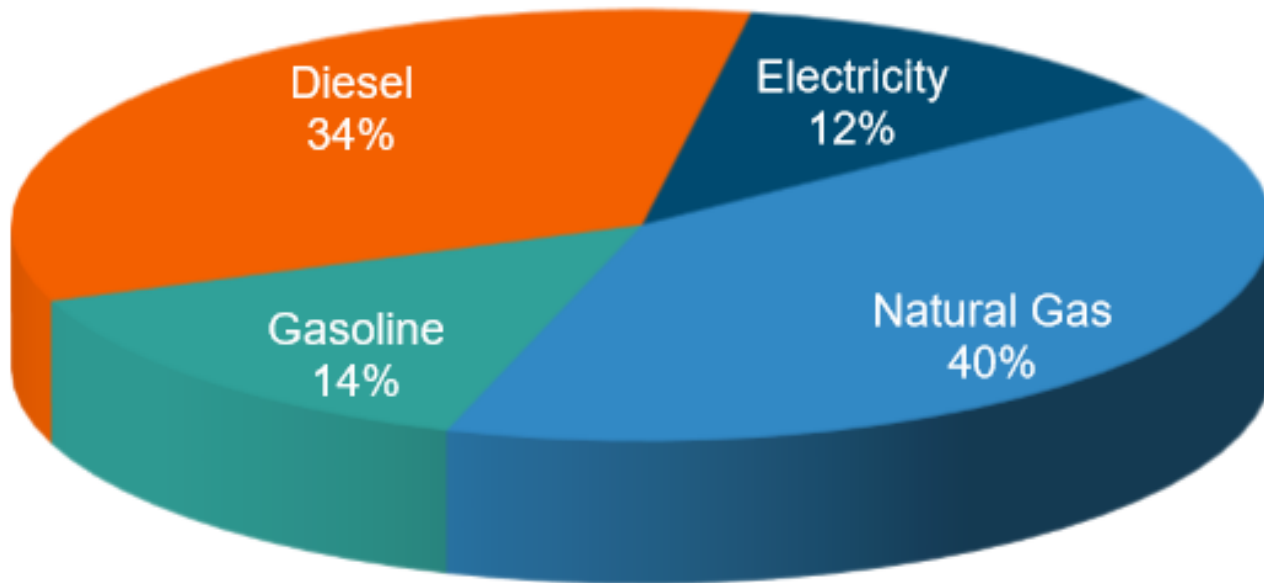


- 2017 Emissions
~79,028tCO₂e
- ~-38% from 2005
baseline

(City of Hamilton.(2019). Annual Energy Report 2018. Retrieved from
<https://www.hamilton.ca/sites/default/files/media/browser/2019-07-08/2018-annual-energy-report.pdf>)

Corporate GHG Emissions by Fuel Source

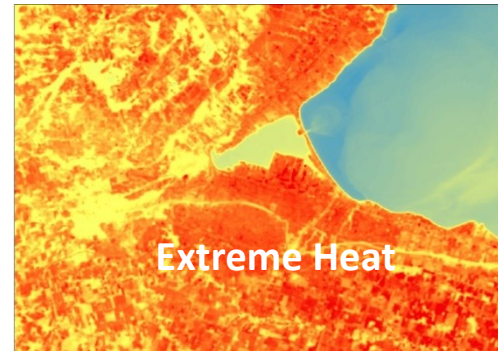
2017 Percentage of tCO₂e Emissions by Fuel Source



(City of Hamilton.(2019). Annual Energy Report 2018. Retrieved from <https://www.hamilton.ca/sites/default/files/media/browser/2019-07-08/2018-annual-energy-report.pdf>)

Climate Impacts

- **\$5.3 billion** average annual investment is needed for municipalities across Canada to adapt to climate change¹



¹FCM(2019). Investing in Canada’s Future: The Cost of Climate Adaptation. Retrieved from: <https://data.fcm.ca/documents/focus/investing-in-canadas-future-the-cost-of-climate-adaptation-summary.pdf>

Adaptation Planning and Hamilton's Farmers

Community Feedback:

1. Food Security (particularly for low-income families)
2. Local Food Security (resilience to outside droughts etc.)
3. Important element in Hamilton's Community Climate Change Action Plan
4. Economic impacts
- 5. *Impacts to farmers!***



Taking Action on Climate Change in
Hamilton – A Community Plan



We need Hamilton's farmers!

Bay Area Climate Change Council

Who They Are:

- Bay Area Climate Change Council (BACCC) is a social impact initiative made up of 14 community leaders from across Hamilton and Burlington

Vision:

- For the Bay Area to be a thriving and resilient zero carbon community by 2050.

Mission:

- To create a sense of urgency and mobilize the community to catalyze climate action in the Bay Area

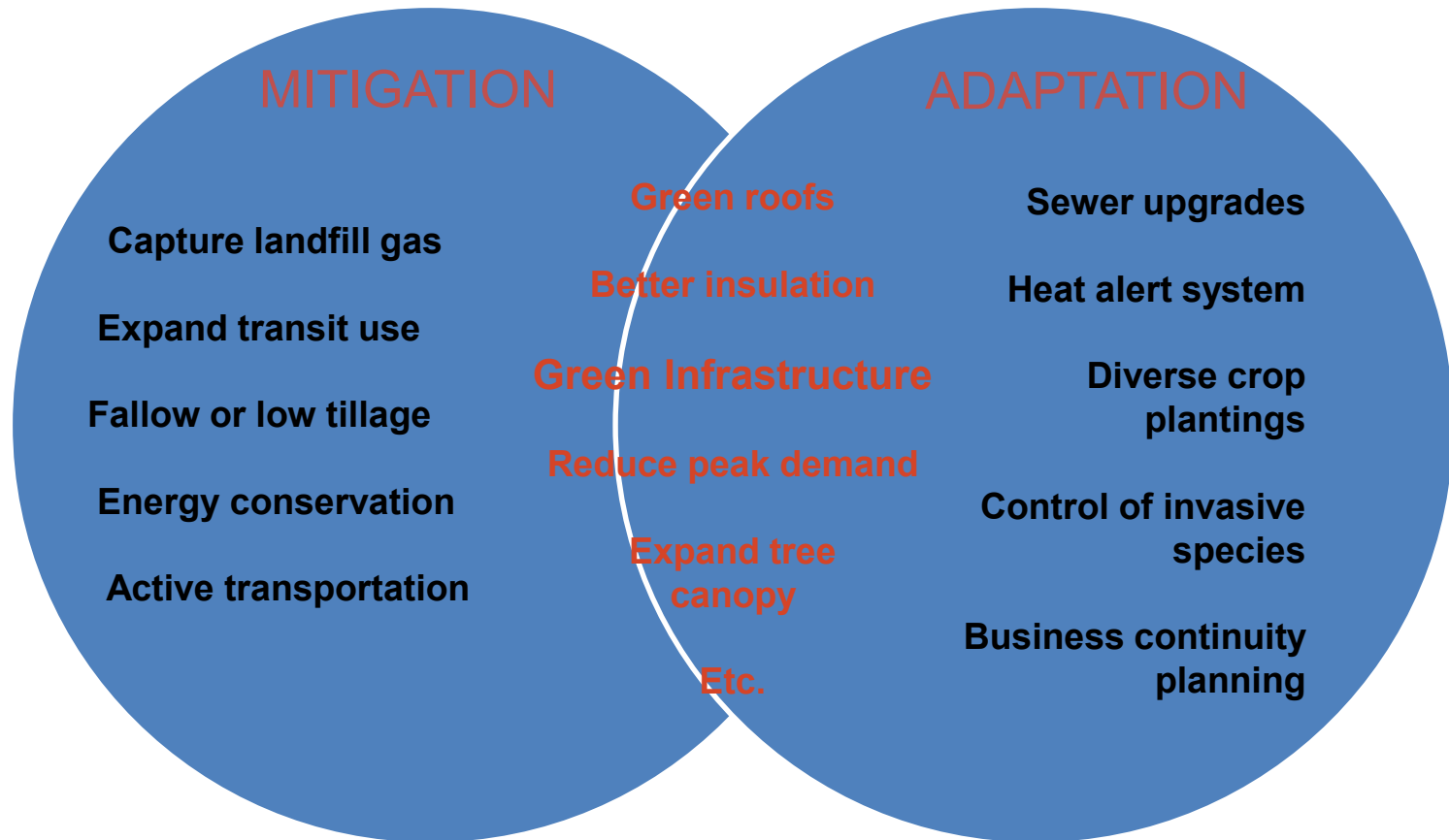
Key Priorities:

- Transportation
- Agriculture and Local Food Production
- Buildings
- Progressive Policies

Climate Resources

- [Climate Atlas of Canada](#)
- [Ontario Centre for Climate Impacts and Adaptation Resources](#)
- [Canadian Centre for Climate Services](#)
- [ClimateData.ca](#)
- [Global Commission on Adaptation](#)
- [IPCC Global warming of 1.5°C Report](#)

Potential Climate Actions





- **Every Degree of Warming Matters**

- **Every Year Matters**

THANK YOU

- **Every Choice Matters**

- **Every Action Counts**