

Climate Change Action Plan

2023 Update



Our Agenda

The City of Mississauga has committed to updating the Climate Change Action Plan and related targets to keep warming below 1.5°C (March 2023)

- 1 Progress to Date
- 2 Accelerated Targets
- 3 2023 Year in Review
- 4 Next Steps

**In an
unequal
world,
we must all
do our
#FairShare
to protect
our shared
climate.**





Mississauga's Climate Change Action Plan

Our roadmap for tackling climate change and becoming a low carbon and resilient community

2020

52% of GHGs*
comes from buildings
in our community

Over 32%
of GHGs** comes
from transportation

6.2M tonnes of eCO₂***
is created yearly as a result
of our carbon footprint

2050

Action Plan

- ✓ **Approx. \$½ Billion Investment**
- ✓ **5 Bold Pathways**
- ✓ **89 Actions**

Goal
Manage the
impact of
weather events

Goal
Reduce emissions by
80% by 2050



89

**Actions
Total**

9

Completed



33

**Completed
Continuous
Improvement**



30

Underway



14

**Not
Started**





89

**Actions
Total**

**80% of actions have been completed
or are currently underway**

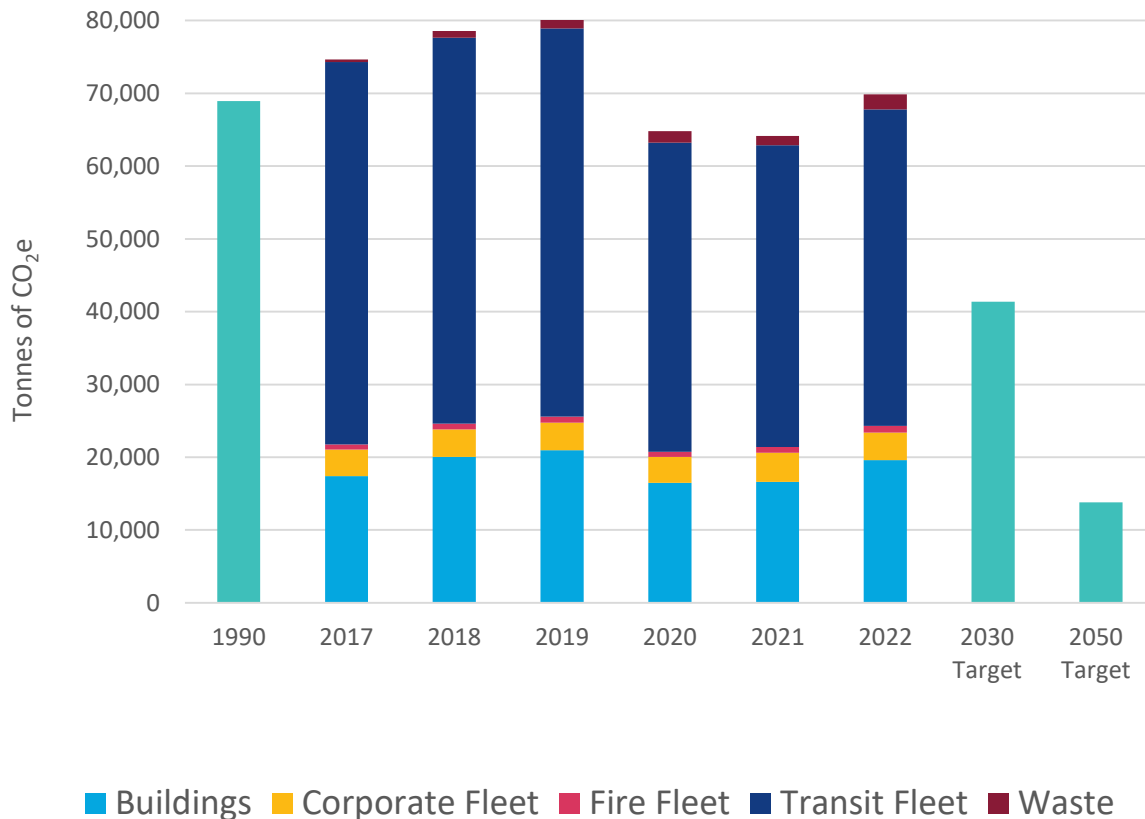
2019



Today

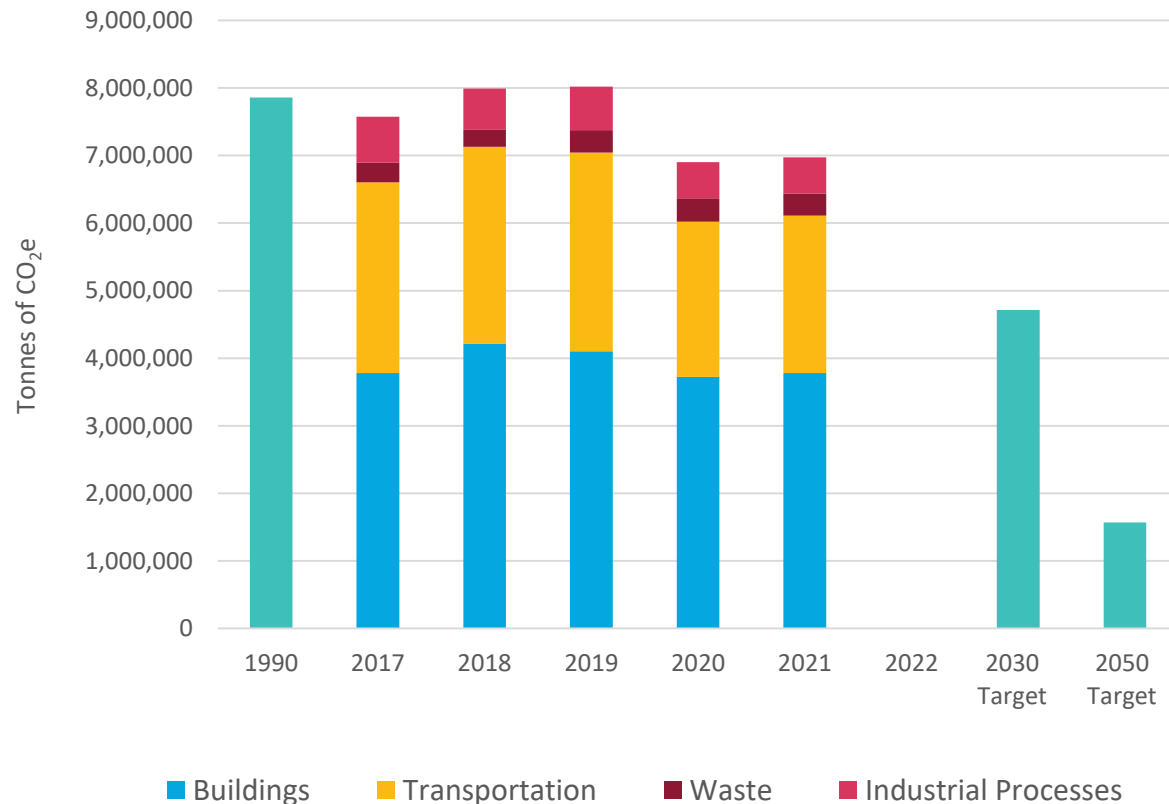
2024

CORPORATE GHG'S



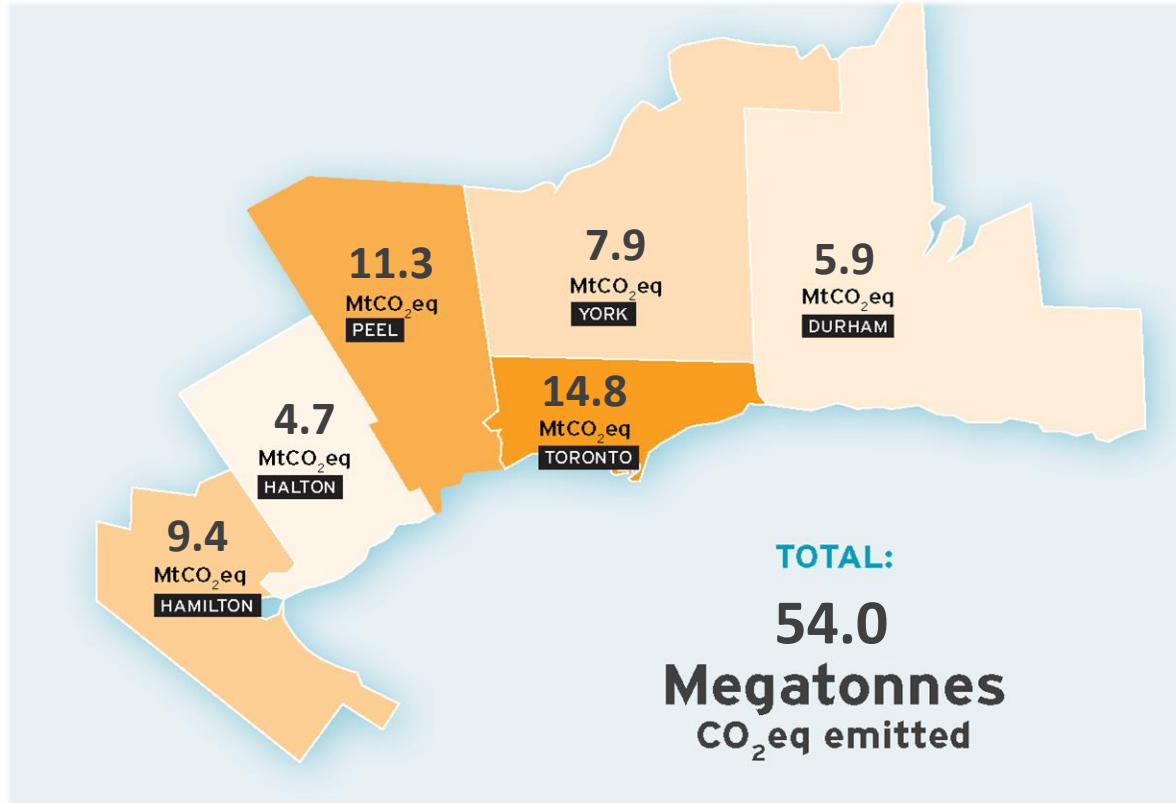
- As we 'return to normal' post COVID, we are seeing emissions starting to go back to pre-pandemic levels
- Largest increase is in transportation due to increased ridership
- Continued growth in City services means business usual emissions will continue to grow without climate action
- As MiWay bus fleet continues to transition to low emissions, should see a positive impact on total GHGs

COMMUNITY GHG'S



- Note: Utility data for 2022 for the community is not currently available
- Anticipate increase in community GHGs based on preliminary data

PEEL REGION: 2022 EMISSIONS



Emissions
increased
in 2022 by

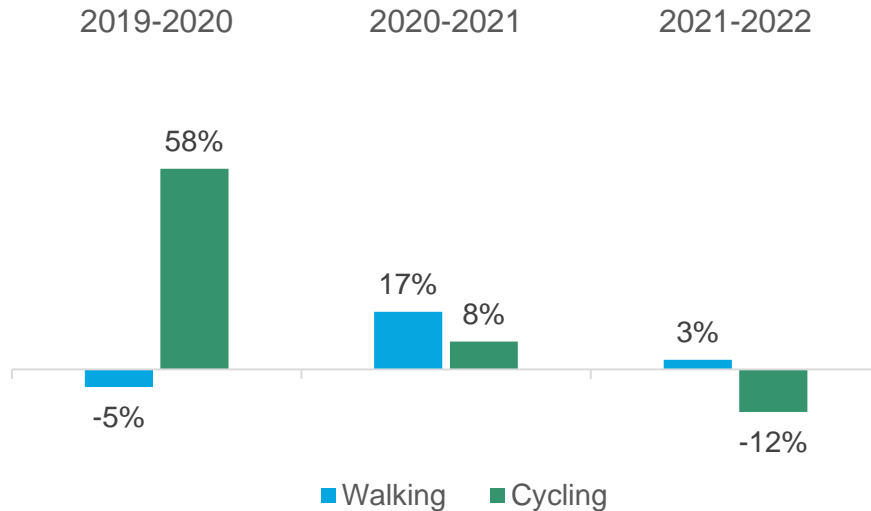
↑ 8%

Emissions increased across all regions
and nearly all sources in 2022

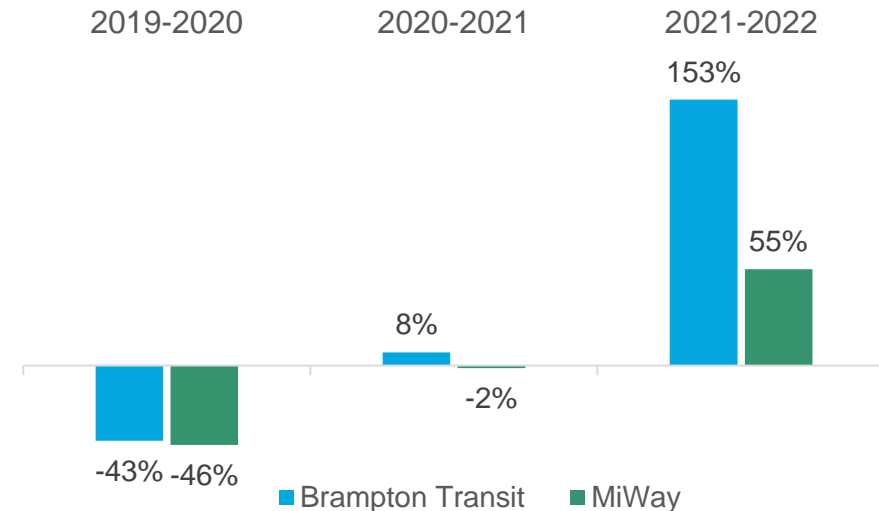
PEEL REGION: ACTIVE TRANSPORTATION & TRANSIT



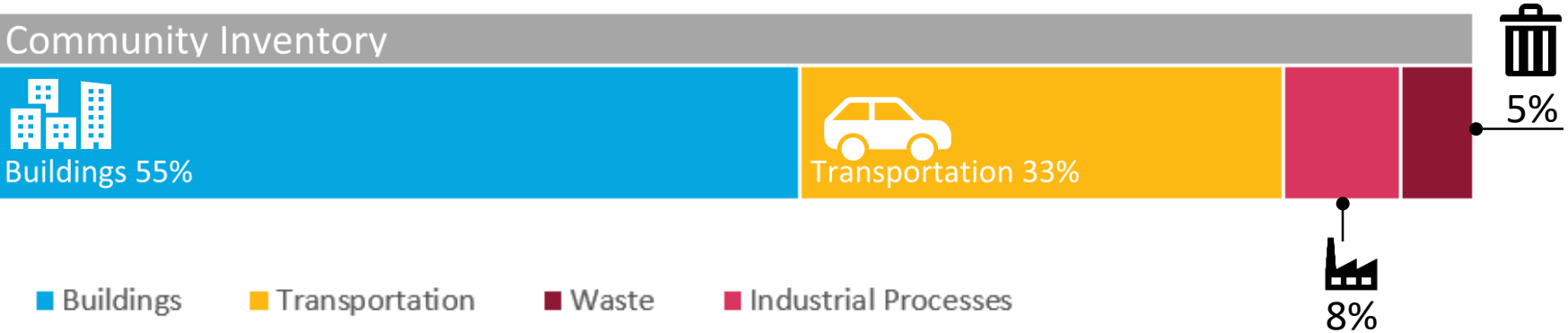
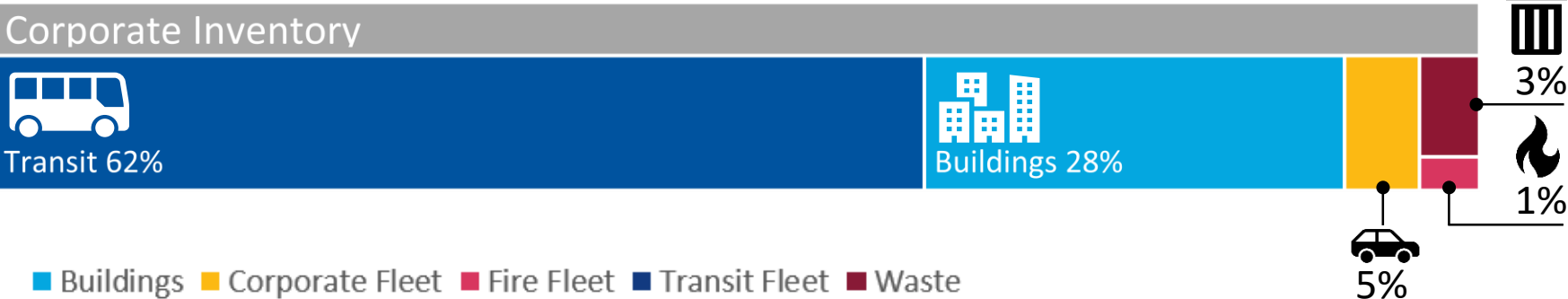
Change in Walking and Cycling



Change in Transit Ridership



MISSISSAUGA'S EMISSIONS SOURCES



Accelerating our targets

MARCH 2023 – COUNCIL MOTION

Staff be directed to produce a pathway report to the 2019 Climate Change Action Plan, updating the plan with the latest climate science found in the IPCC 2023 Report with recommended actions to meet new community-wide science-based targets for 2030 and to commit to net zero on, or before, 2050.

Updated 2030 Target

40% ↓ → 63% ↓

Updated 2050 Target

80% ↓ → Net Zero

2023 Year in Review

Buildings and Clean Energy



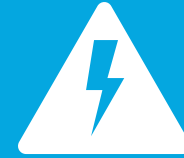
Net Zero Buildings – Fire Station 125

Fire Station 125 is being built to net zero energy and will be opening in 2024. All future fire stations will also be built to net zero energy.



Green Development Standards Update

The City is updating the Green Development Standard so that - by 2030 – most new private buildings include energy efficiency and climate resilience measures.



District Energy – Downtown Node

Feasibility study is complete. Moving forward with detailed design for Phase 1A.

Low Emissions Mobility



Low and Zero Emissions Vehicles, Buses, and Equipment

Over 40% of the MiWay bus fleet will be 2nd Generation Hybrids by the end of 2023 (that's over 200 buses)

12 Electric Ice Re-surfacers (e.g., Zamboni's)

Over 50% of MiWay's light duty fleet is fully electric



EV Charging Infrastructure

95+ EV chargers have been installed for a mix of corporate and public use in the last five years



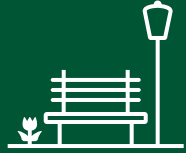
Active Transportation

38 km of new cycling infrastructure since 2020

6.8km of new sidewalks

Launching a Shared Micro-Mobility Program in 2024

Resilient and Green Infrastructure



Parkland Acquisition

The City has acquired 94.76 acres of parkland since 2020 to increase resilience and address the deficit of parkland in Mississauga



Community Gardens

Over 10,000 lbs of food is grown each year (12,582 lbs in 2023).

Nearly 50% of food grown is donated to Mississauga food banks and local organizations each year



Shade Program

12 new shade structures have been added to parks since 2020 with 10 additional structures expected to be added in 2024.

1,703 trees have been planted in parks to provide shade on playgrounds since 2020



One Million Trees

Over 500,000 trees have been planted since 2012. In 2022, over 50,000 trees were planted.

Resilient and Green Infrastructure



Build Beautiful – New Stormwater Master Plan

The new Stormwater Master Plan builds on the City's existing stormwater management program and outlines 22 actions and recommendations for managing rainwater in Mississauga



Stormwater Management

15 LIDs installed throughout City road right-of-ways and a new underground stormwater management facility in Cooksville



Climate Risk and Vulnerability Assessment

The City completed an assessment of municipally-owned assets to evaluate climate related risks and vulnerabilities. The findings are being used to develop Asset Management Plans in 2024.

Community Engagement and Partnerships



Mississauga Climate Leaders

MCLP is a joint program of Environment & EDO that supports local businesses in taking climate action. The program was fully subscribed to in 2023 – its inaugural year.



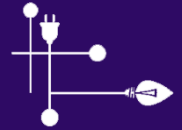
Cooksville SNAP

In partnership with the City & others, Credit Valley Conservation kicked off the design of its latest Sustainable Neighbourhood Action Plan (SNAP) in the Cooksville area. The plan will be completed in 2024.



Own Your Litter Campaign

We all have a part to play in keeping our city beautiful and litter-free. Learn about some of the ways you can make a difference at www.ownyourlitter.ca



Center for Community Energy Transformation

With support from each municipality, CCET was established in 2022 to aid the transition to a sustainable energy transformation in the Cities of Brampton and Mississauga and Town of Caledon. Will be the administrator of the Home Retrofits Program in Peel.

Circular Economy



Diverting Dog Waste

The City has acquired 94.76 acres of parkland to increase resilience and address the deficit of parkland in Mississauga



Waste Diversion at Events

At the 2022 Ontario Parasport Games and 2022 Ontario Summer Games a combined ~1,900 kg of organics was diverted and turned into compost. In 2024, the City will be expanding organics collection and encouraging waste-free events.



Maker Spaces and Repair Hubs

Maker Mississauga provides access to library equipment and software to create, repurpose, and repair materials and Makerspaces can be booked at select Libraries.

In 2024, the City will be hosting its first repair hub at the Malton Library.



Surplus Assets Solutions

The City successfully diverted more than ~120,000 kilograms of materials from landfill by through the reuse, recycle, and donation of a number of items to local not-for-profit organizations at the Hazel McCallion Central Library renovation project

Overarching Highlights



Task Force on Climate Related Disclosures

The City adopted the Taskforce on Climate-related Financial Disclosures (TCFD) framework in 2020 to communicate climate-related financial disclosures on an annual basis.



Applying a Climate Lens

Community Services Future Directions Master Plans

Dundas Bus Rapid Transit (BRT) Project

Corporate Risk Impact Matrix



Annual Reporting

The City joined the Global Covenant of Mayors in 2017 and continues to report annual GHG's for corporate and community emissions via CDP.

Current Grade: B

NEXT STEPS



- 1 Website Updates and Media Story will be posted December 11, 2024
- 2 Progress Update and Preliminary Net Zero Pathway w/ accelerated targets planned for LT and GC in Jan/Feb 2024
- 3 Update to CCAP has begun – expect to be complete by Q1 2025