



# 2023 Annual Update

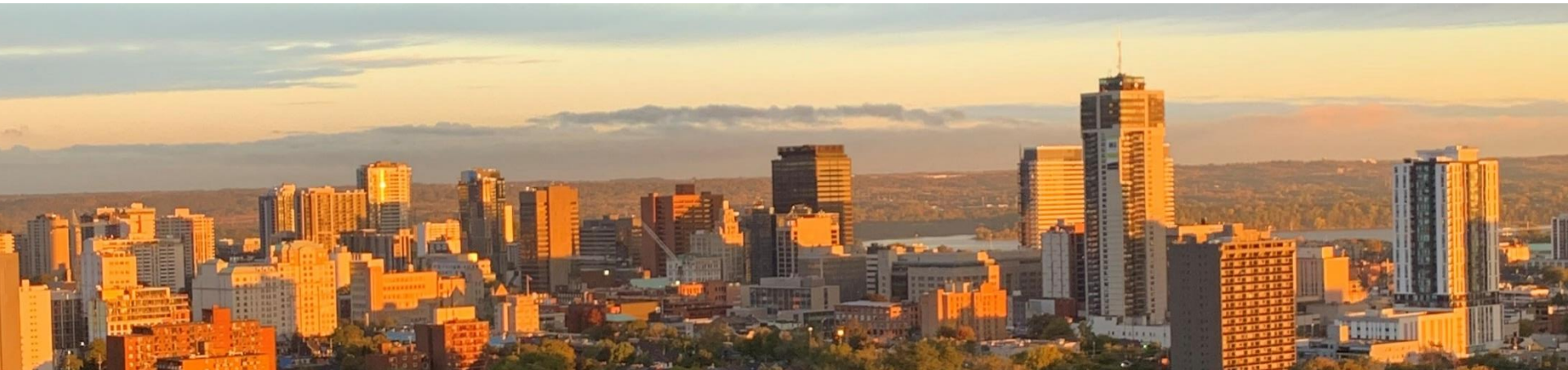
# The Office of Climate Change Initiatives (OCCI) Team

**Lynda Lukasik** – Director

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**Beatrice Ekoko** – Project Manager



# Presentation Overview

- OCCI 2023 Priority Focus Areas Progress Update
- Hamilton GHG Inventory Update
- Hamilton's Climate Action Strategy (HCAS)  
Mitigation & Adaptation Actions Status Update
- Recommended 2023 Climate Change Reserve  
Investments



# OCCI 2023 Priority Focus Area

## Climate Change Governance & Innovation

- City of Hamilton internal **Climate Change Initiatives Steering Committee** established and now meeting
- City of Hamilton **Climate Change Initiatives Extended Leadership Group** being formed
- 2 new OCCI staff recruited and on-boarded
- **Community Climate Change Advisory Committee** establishment underway

# Climate Change Advisory Committee (CCAC)



Provide advice to Council and City Staff on the prioritization, implementation, and monitoring of Hamilton's Climate Action Strategy



Advise to ensure equitable and inclusive implementation



Understand and respond to diverse perspectives across Hamilton

# Climate Change Advisory Committee Progress

January 2023: Committee Terms of Reference approved by Council

June – August 2023: Community Engagement. Stakeholders and residents invited to formally apply to serve on the Committee

Over 60 applications were received

Current Status: Application review underway through the Interview Sub-Committee of the GIC with support from OCCI staff

An Advisory Committee meeting will be scheduled as soon as  
Committee membership is finalized

# OCCI 2023 Priority Focus Area

## Community Climate Outreach

- Development of a Climate Communications & Engagement Strategy is underway
- Agreement and partnership with the Bay Area Climate Change Council has been finalized
- OCCI annual reporting format and methodology were established and applied to 2023 report

# Climate Communications & Engagement Strategy

Raise awareness about the climate crisis in Hamilton to mobilize action

Inform about HCAS and its implementation progress

Highlight City of Hamilton climate leadership and collaborative efforts

Align with relevant City Communications & Engagement Strategies

Centre climate justice. Help ensure it is integrated throughout all municipal work

Provide key messaging around climate-related programs and opportunities

Promote key programs, opportunities, and resources and gain greater participation


Offer a platform for two-way communication on climate issues with the public

Celebrate stakeholder/community-led achievements



# Climate Justice

Recognizes the disproportionate impacts of climate change on low-income, under-served, marginalized, racialized communities, and people and places least responsible for causing the climate crisis



Addresses the root causes of climate change and in doing so, seeks solutions that simultaneously tackle the broad range of social, racial, and environmental injustices.

# OCCI 2023 Priority Focus Area

## Hamilton's Carbon Accounting and Budgeting Framework

Creating accountability and governance to operationalize GHG emission reductions and climate resiliency into the City of Hamilton

PILLAR 1: Net-zero  
Calculations

Calculating fair share finite carbon budget aligning with 1.5 C global warming target

PILLAR 2: Protocols  
and Processes

Create clear, transparent protocols/processes to align budget and planning processes

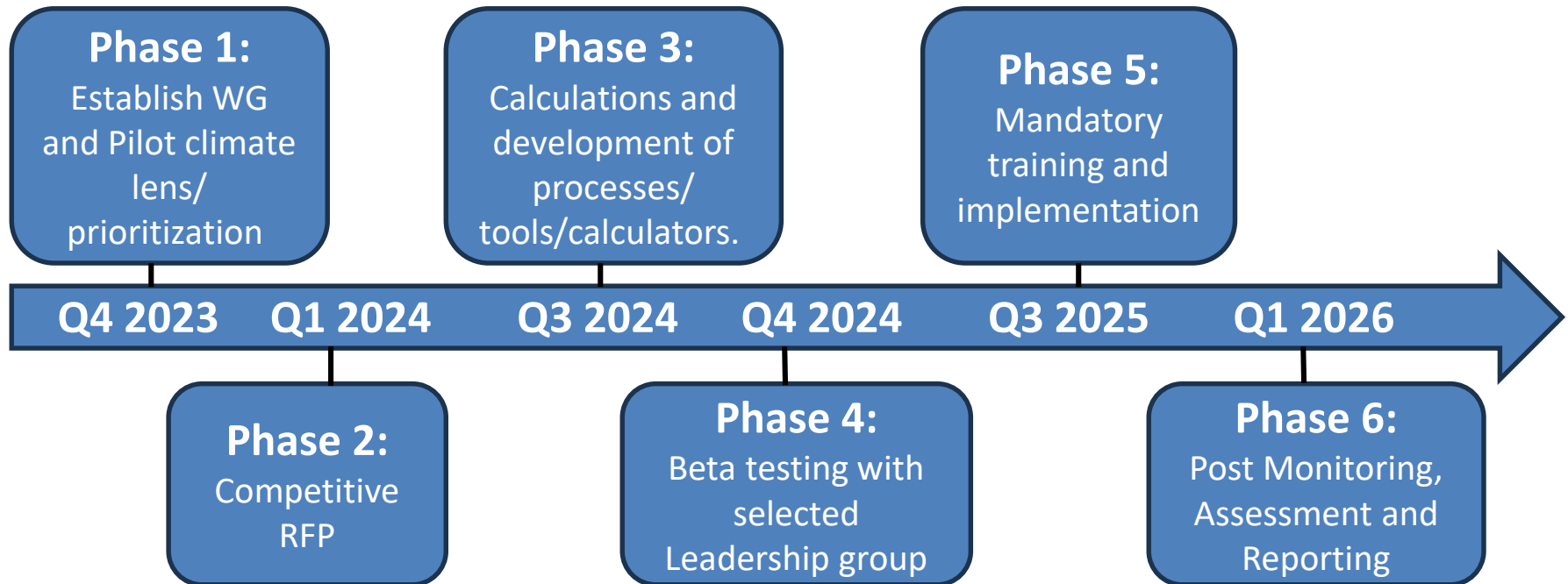
PILLAR 3: Tools and  
Resources

Tools/Resources/Calculators to support City Staff, and Leadership to implement.

# OCCI 2023 Priority Focus Area

## Hamilton's Carbon Accounting and Budgeting Framework Continued...

Multi-year systematic approach to embed climate change prioritization into annual budgeting and planning processes



# OCCI 2023 Priority Focus Area

## Green Buildings

- **Implement Better Homes Hamilton pilot residential energy efficiency retrofit program**
  - Guiding Principles of BHH
  - Program Eligibility
  - Eligible Retrofits
  - Program Administration
  - Current status



# OCCI 2023 Priority Focus Area

## Green Buildings

- **Develop an “Energy Performance/Net Zero” standard and strategy for implementation for all new municipal buildings by Q4 2024**
  - On-going collaboration initiated with Corporate Facilities and Energy Management and the Office of Energy Initiatives on development of the new standard



CityHousing Hamilton 257 King William Street

# OCCI 2023 Priority Focus Area

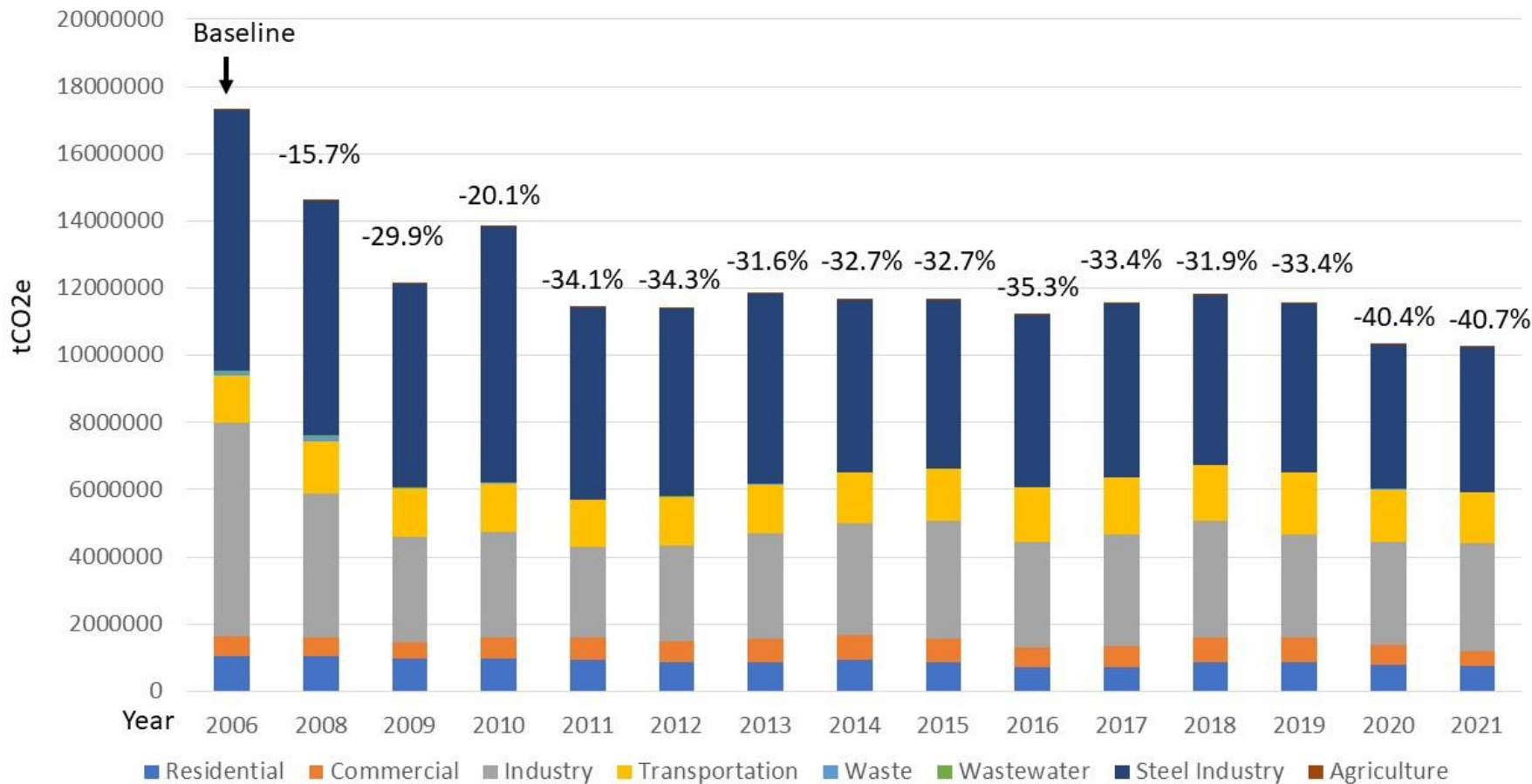
## Urban Greening

- Efforts are on-going to facilitate implementation of enhanced urban greening initiatives



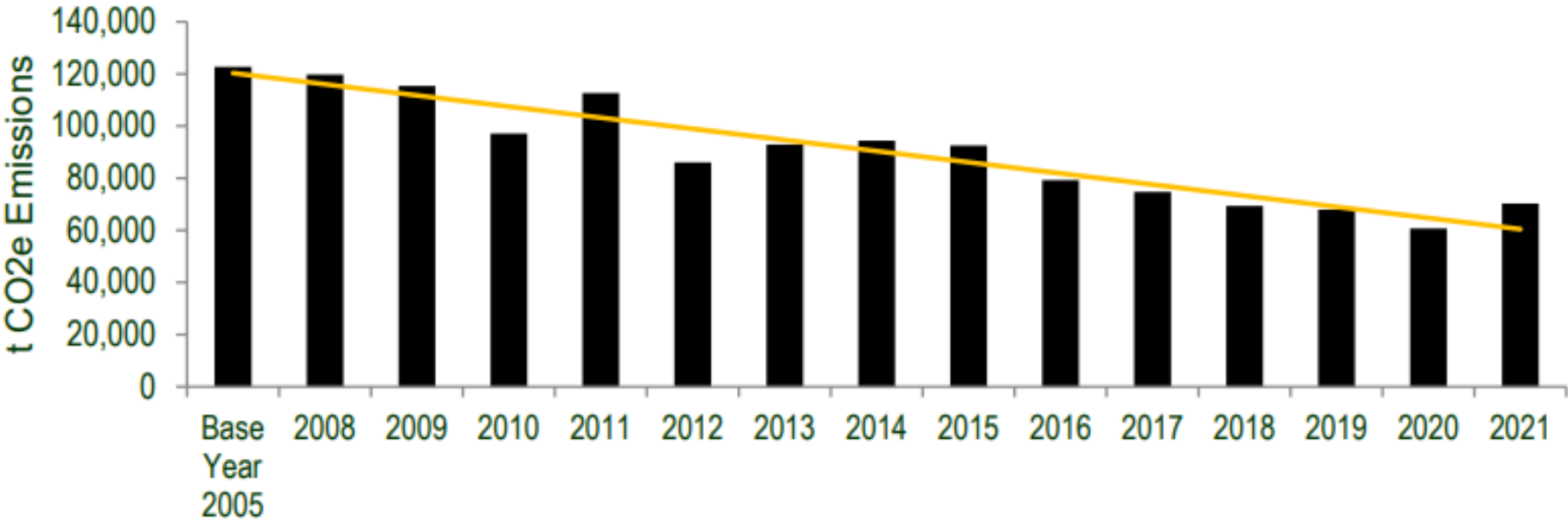
# Hamilton's GHG Emissions Inventory Update

## Community-Wide GHG Emissions 2006-2021



# Hamilton's GHG Emissions Inventory Update

## Corporate GHG Emissions 2005-2021



(Adapted from Appendix "A" to Report PW21049(b))



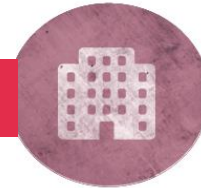
# Climate Mitigation Actions Status Updates

## TRANSFORMATION 1: Innovating Our Industry



- ArcelorMittal Dofasco 3.0 MtCO<sub>2</sub>e decarbonization plan
- City of Hamilton leading and supporting creation of Regional Decarbonization Hub

## TRANSFORMATION 2: Transforming Our Buildings



- Launching Better Homes Hamilton Pilot Program
- City developing 'Green Development Standards' to guide sustainable development
- CityHousing Hamilton leader in Passive House Construction

# Climate Mitigation Actions Status Updates

## TRANSFORMATION 3: Changing How We Move



- Bike Share and E-Scooter Programs as of August 2023 logged 557,353KM of travel
- City accelerating completion of Cycling Master Plan and set to fully decommission diesel buses by 2026

## TRANSFORMATION 4: Revolutionizing Renewables



- HCE Energy Harvesting Initiative
- City partnering with McMaster University – Thermal Energy Mapping for the Decarbonization of Building Systems

## TRANSFORMATION 5: Growing Green



- City of Hamilton Forestry and Horticulture doubles community tree plantings to 1,970 trees and surpasses Free Tree giveaway goal of 3,000 to 3,536

# Climate Adaptation Actions Status Update



## RESILIENT THEME 1: Built Environment/Systems

- In 2022, City winter sidewalk maintenance increased from 397km to 866km.
- Development of a municipal stormwater fee is well underway, including exploration of incentives/ credits to support on-property stormwater management measures.

## RESILIENT THEME 2: People and Health



- Licensing and Bylaw Services along with Public Health will prepare an Adequate Heat Bylaw for City Council review and approval in Q1 2024.
- A Heat Response Strategy is getting community input & going to Public Health Committee in Q1 2024. It will enhance City programming, including supporting community efforts like networks of neighbourhood caring.

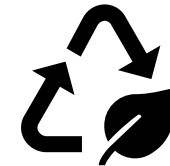
# Climate Adaptation Actions Status Updates



## RESILIENT THEME 3: Natural Environment, Agriculture and Water

- City Forestry's Community Tree Planting Program has harnessed volunteer power to plant over 3,600 trees on city property, 50% more than planned for 2023.
- On-going naturalization efforts are underway in a number of city parks and a Land Acquisition Plan was presented to GIC in September 2023.

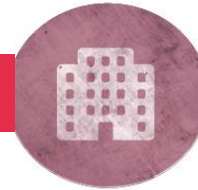
## RESILIENT THEME 4: Energy and Economy



- Corporate Facilities & Energy Management is exploring opportunities to increase biogas production at its two existing sites and potential market opportunities to convert biogas into RNG to support conversion from natural gas to low carbon fuel.

# Status Update – Actions Not Yet Started

## TRANSFORMATION 2: Transforming Our Buildings



- Install solar PV on new and existing buildings

## TRANSFORMATION 4: Revolutionizing Renewables



- Encourage development of local renewable energy cooperatives.
- Implement strategic renewable solar energy installations



## RESILIENT THEME 3: Natural Environment, Agriculture and Water

- Engage with local agricultural leaders to understand existing resources for farmers in addressing climate adaptation, and how the City can support or expand on those efforts.

# Recognizing Community Climate Action



Community planting trees



Rose standing in her garden



Green Block Growing: Action 13

A “whole society” approach

## Previously Approved 2023 Climate Change Reserve Investments

| Project   | Details   | Funding   |
|---|---|-----------|
| <b>Natural Areas Inventory Update</b>                     | To update Hamilton's Natural Areas Inventory to set a baseline to measure changes – both positive and negative - over time. | \$200,000 |
| <b>Natural Areas Acquisition Fund</b>                     | To provide funding to eligible Conservation Organizations for land acquisition up to 50% of the cost.                       | \$150,000 |
| <b>Better Homes Hamilton Home Energy Retrofit Pilot</b>   | To cover costs for program administration   | \$275,000 |
| <b>Hamilton Regional Decarbonization Hub</b>              | To support the operation of this proposed multi-stakeholder process   | \$80,000  |
| <b>Community Climate Change Advisory Committee</b>        | To support the functioning of the Committee, including provision of supports to participants                                | \$9,000   |
| <b>EV Charging Electrical Upgrades at City Facilities</b> | To enable electrical capacity upgrades to support EV charging stations needed for City Fleet EVs.                           | \$535,000 |

## Recommended 2023 Climate Change Reserve Investments

| Project  | Details  | Funding   |
|--|--|-----------|
| <b>E-Bike Pilot for Hamilton Bike Share</b>                          | Purchase 100 e-bikes, associated equipment, & cover contractual costs to Bike Share to manage the e-bikes, to enable a 3-year 'Bike Share E-Bike Pilot Program' in Hamilton. | \$750,000 |
| <b>Municipal Parking Lot Greening &amp; Climate Adaptation</b>       | Pilot different porous asphalts, plant native trees & plants, & incorporate bike parking and street furniture at six city parking lots.                                      | \$200,000 |
| <b>Enhancement &amp; Expansion of Secure Bike Parking Facilities</b> | Enhance existing secure bike parking facilities and establish new secure bike parking facilities at transit hubs & major destinations.                                       | \$350,000 |
| <b>De-Paving Pilot Project</b>                                       | Undertake targeted de-paving initiatives on City-owned lands to test strategies for enhanced stormwater retention, tree canopy coverage and urban greening.                  | \$350,000 |
| <b>Fire Truck Anti-Idling Technology</b>                             | Retrofit 15 existing large diesel apparatus with battery-powered 'auxiliary power units' (APUs)  | \$900,000 |



# RECOMMENDATIONS

- (a) That Appendix “A” to Report PED23222 “Hamilton’s Climate Action Strategy Annual Climate Change Update 2023” be received.
- (b) That Appendix “B” to Report PED23222 “Status Update Regarding Climate Actions In Hamilton’s Climate Action Strategy” be received.
- (c) That the following investments to be funded from the 2023 Budget allocation to the Climate Change Reserve (Account No 108062) be approved:
  - (i) E-Bike Pilot for Hamilton Bike Share to an upset limit of \$750k
  - (ii) Municipal Parking Lot Greening / Climate Adaptation pilot project to an upset limit of \$200k
  - (iii) Enhancement/Expansion of Secure Bike Parking Facilities to an upset limit of \$350k
  - (iv) De-paving pilot project to an upset limit of \$350k
  - (v) Fire Truck Anti-Idling Technology to an upset limit of \$900k



Hamilton

THANK YOU