



**Climate Change Advisory Committee Meeting
#24-001
April 30th, 2024**

The Office of Climate Change Initiatives (OCCI) Team

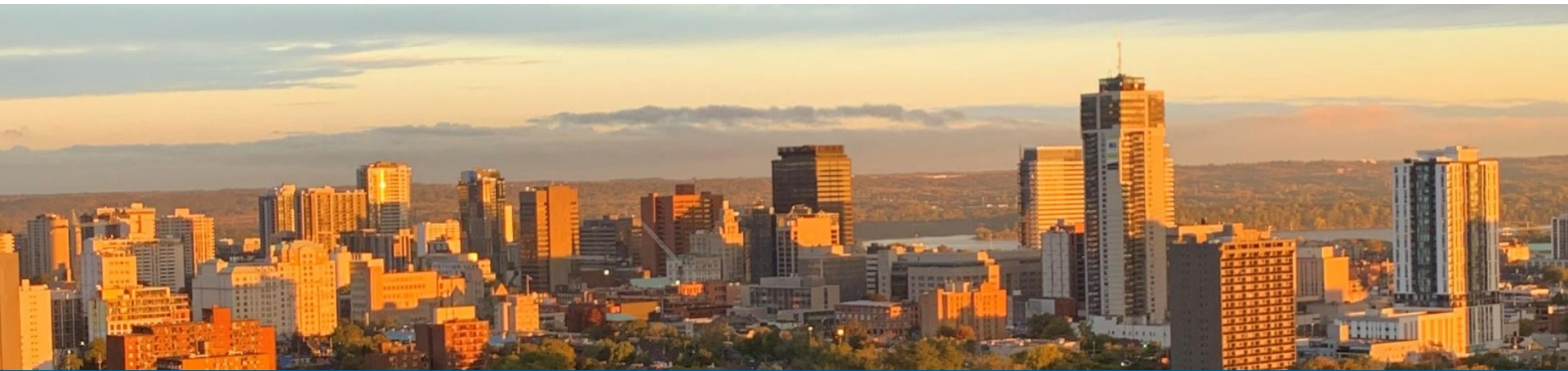
Lynda Lukasik – Director

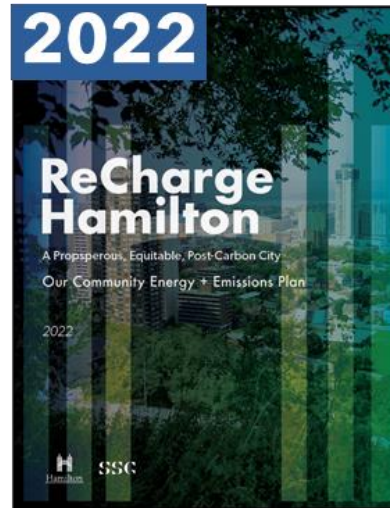
Trevor Imhoff – Senior Project Manager

Cathrin Winkelmann – Senior Project Manager

Beatrice Ekoko – Project Manager

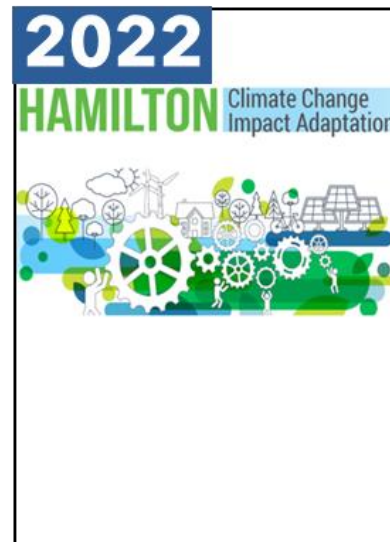
Adam Watson – Project Manager





Climate Mitigation – Community Energy and Emissions Plan (CEEP)

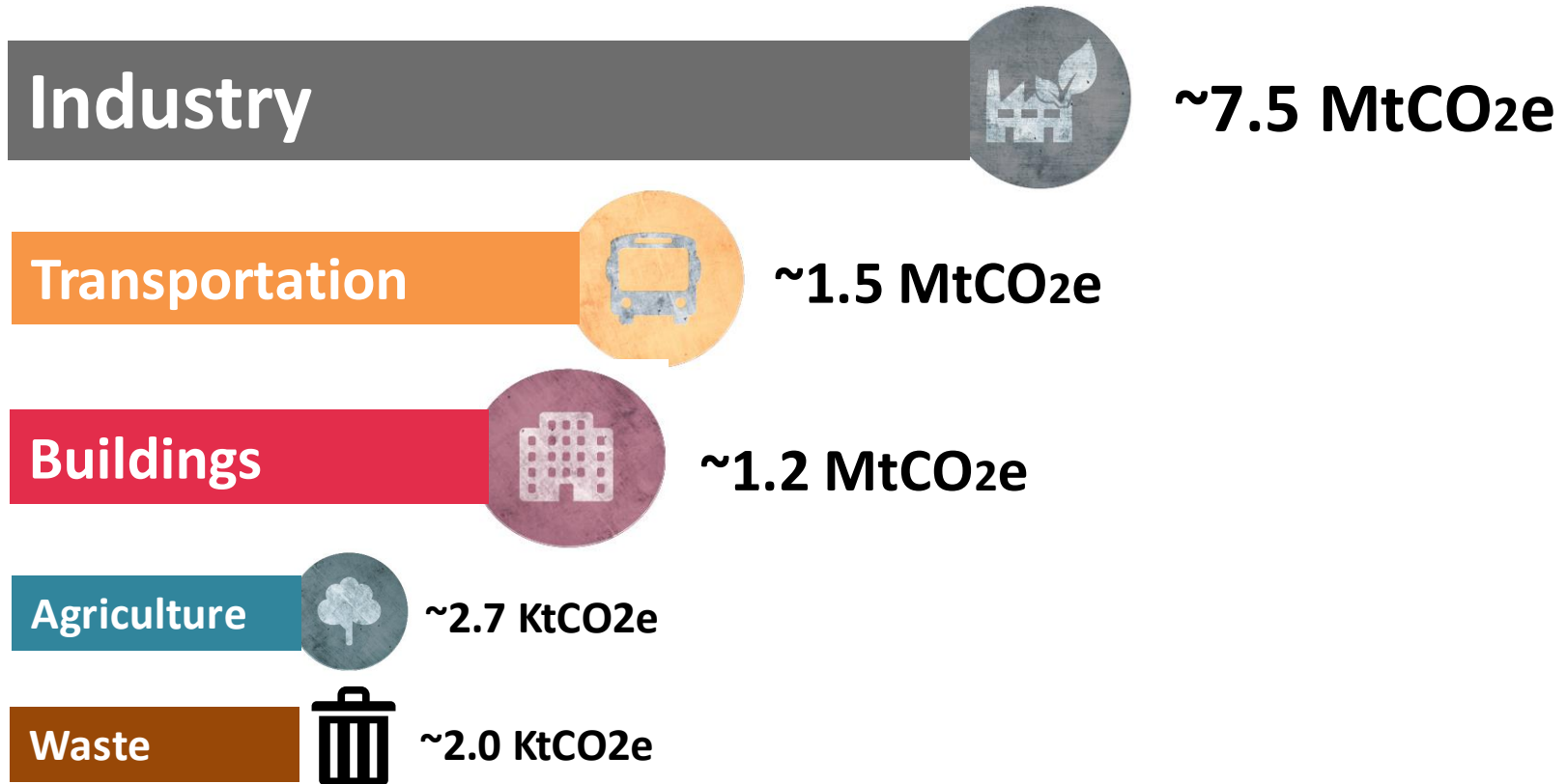
- Actions to reduce GHG emissions that cause climate change



Climate Adaptation – Climate Change Impact Adaptation Plan

- Actions that help manage or adapt to a changing climate

GHG Emissions – Hamilton Context (2021)



OCCI Mandate

- Oversee, Coordinate & Track Implementation of Hamilton's Climate Action Strategy

OCCI 2023 Priority Focus Areas

- Climate Change Governance & Innovation
- Carbon Budgeting
- Community Climate Outreach
- Green Buildings
- Urban Greening

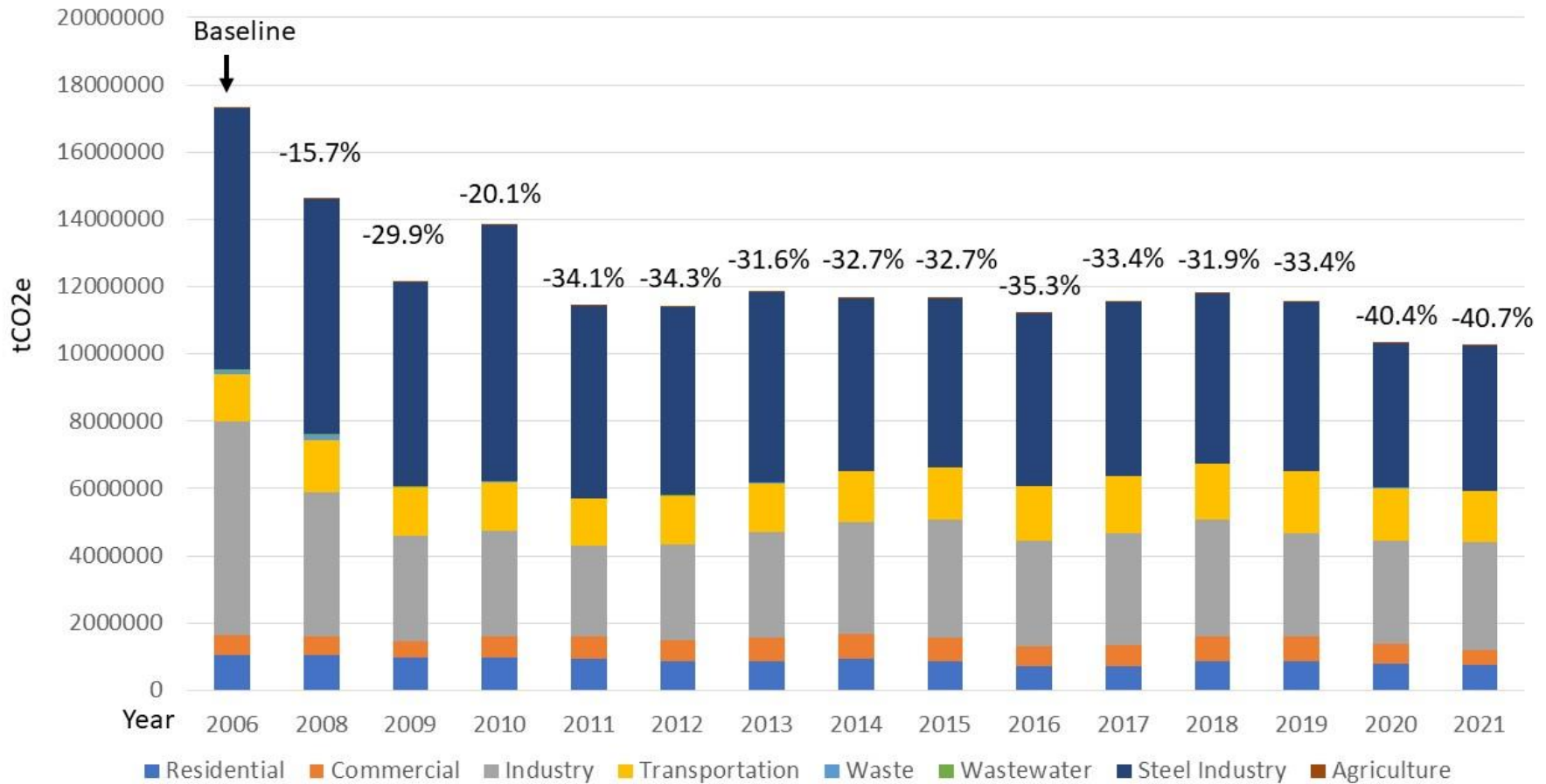
OCCI 2023 Priority Focus Areas

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
- 3 new OCCI staff recruited and on-boarded + 2 transferred
- **Community Climate Change Advisory Committee**

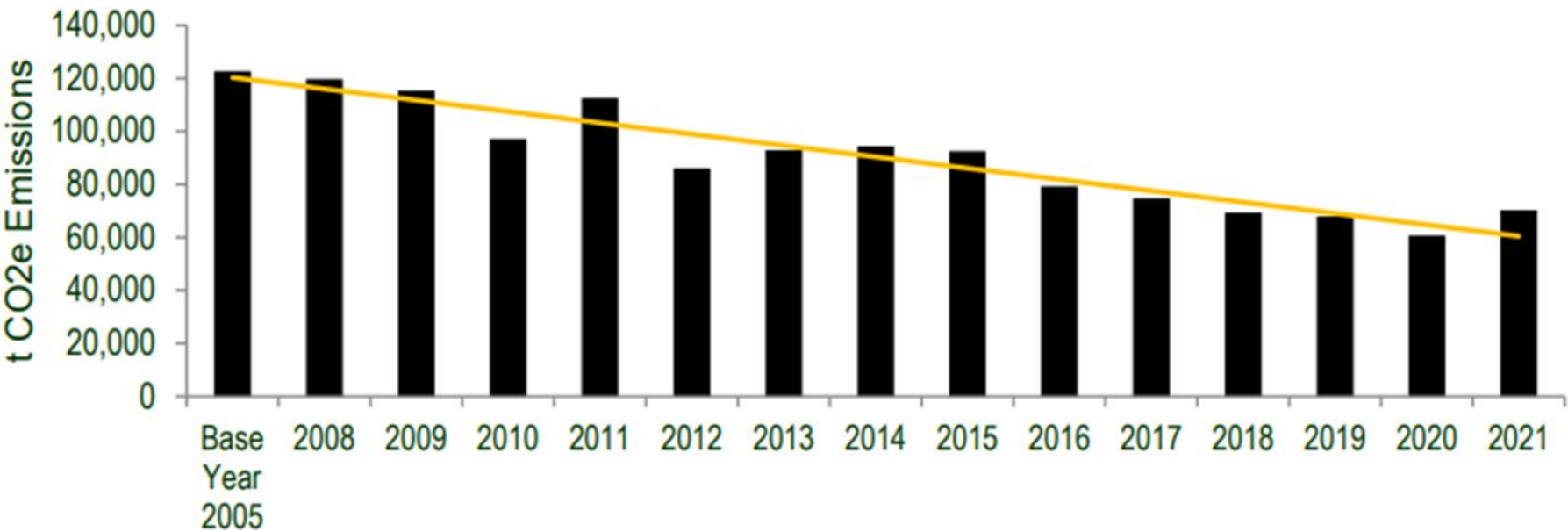
Hamilton's GHG Emissions Inventory Update

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 MtCO₂e decarbonization plan
- City of Hamilton leading and supporting creation of Regional Decarbonization Hub

TRANSFORMATION 2: Transforming Our Buildings



- Launched Better Homes Hamilton Pilot Program
- City developing 'Green Building Standards' to guide sustainable development
- CityHousing Hamilton leader in Passive House Construction
- Initiated development of net zero/zero carbon policy for corporate buildings

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



- In 2023, City of Hamilton Forestry and Horticulture got 3,600+ trees planted via community tree planting events, and distributed 3,500+ trees through its annual Free Tree Giveaway

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
- A Heat Response Strategy is getting community input & went to Public Health Committee on April 29th, 2024. It will enhance City programming, including supporting community efforts like networks of neighbourhood caring.

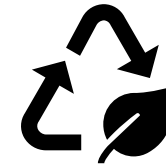
Climate Adaptation Actions Status Updates



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.

Climate Change Reserve

- **PURPOSE** - To fund initiatives that advance the City's approved Climate Change goals.
Reserve guided by Policy FPAP-RE-015
- 2023 Budget confirmed sustainable funding for the Reserve, allocating **\$2.5million each year.**
- Reserve is administered by Office of Climate Change Initiatives.

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

Project	Details	Funding
E-Bike Pilot for Hamilton Bike Share	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
Municipal Parking Lot Greening & Climate Adaptation	Pilot different porous asphalts, plant native trees & plants, & incorporate bike parking and street furniture at six city parking lots.	\$200,000
Enhancement & Expansion of Secure Bike Parking Facilities	Enhance existing secure bike parking facilities and establish new secure bike parking facilities at transit hubs & major destinations.	\$350,000
De-Paving Pilot Project	Undertake targeted de-paving initiatives on City-owned lands to test strategies for enhanced stormwater retention, tree canopy coverage and urban greening.	\$350,000
Fire Truck Anti-Idling Technology	Retrofit 15 existing large diesel apparatus with battery-powered 'auxiliary power units' (APUs)	\$900,000

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

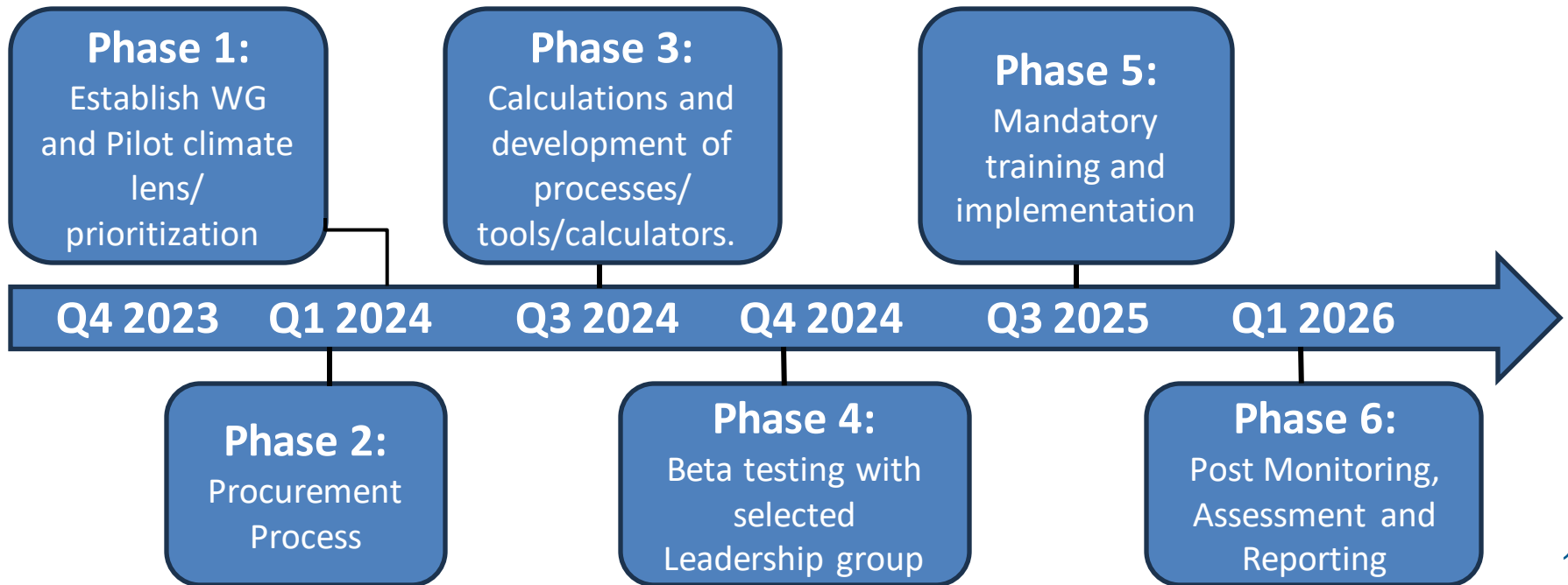
PILLAR 3: Tools and
Resources

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



OCCI 2023 Priority Focus Area

Community Climate Outreach

- Development of a Climate Communications & Engagement Strategy continues
- Agreement and partnership with the Bay Area Climate Change Council has been finalized and work is in effect
- OCCI annual reporting format and methodology were established and applied to 2023 report, with an eye to improving these for the 2024 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 Framework

- OCCI Staff are currently finalizing a Project Charter for the co-design of a Climate Justice Framework intended to guide municipal efforts to implement climate mitigation and adaptation actions set out in Hamilton's Climate Action Strategy
- The Climate Justice Framework will support the participation of frontline communities

Climate Justice

- Recognizes the disproportionate impacts of climate change on frontline communities— groups of people who are directly affected by climate change and societal inequity at higher rates than those who have more power—such as racialized, low-income, 2SLGBTQQIA+, people with disabilities, and Indigenous Peoples), but historically excluded from participating in shaping climate policy processes
- 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

Climate Change Governance and Innovation

- Establishment of a Change Advisory Committee to Council (2022-2026)
- Supported by Office of Climate Change Initiatives and considered a key part of our broader climate governance framework.

Membership

Equity, Diversity, Inclusion, Accessibility Objectives in the **Terms of Reference:**

- **50% minimum gender diversity**
- 30% minimum representation from equity-deserving groups
- **Academics (1):** Shelley Rempel
- **Agricultural (2):** Zach Kuszczak; Frank Lenarduzzi
- **Youth (2):** Amer, Adan; Boyer, Jordyn
- **Citizens (4):** Bayode Akomolafe; Su Heenan; Lucia Iannantuono; Tran Nguyen
- **Health (1):** Myles Sergeant
- **Indigenous(2):** Tristan Maclaurin; Eladia Smoke
- **Industry/Business (4):** Gillian Henry; Jesse Hudecki; Matthew Tutty; Maryluz Velasco
- **Non-Government Organizations (4):** Ian Borsuk, Giuliana Casimirri, Gabriella Kalapos, Jen Matthews
- **Non-Voting Resource (3):** Jeffery Harti; Mary Ellen Scanlon; Aditya Khetan
- **Councillors (3):** C. Kroetsch; A. Wilson; C. Cassar
- **Total = 26 seats**

Climate Change Advisory Committee: Purpose

To provide advice to Council and City Staff on the prioritization, implementation and monitoring of Hamilton's Climate Action Strategy, through an equitable and inclusive manner and a climate justice lens, that responds to the perspectives and needs of all, while transitioning to a prosperous, healthy and vibrant net-zero greenhouse gas community that is a national leader in climate adaptation.

In-scope Objectives

- Recommendations on prioritization, implementation, and monitoring of Hamilton's Climate Action Strategy (HCAS)
- Advise on developing a 'City and Community Climate Change Report Card' that tracks meaningful targets, indicators and timelines for monitoring that is transparent and easily accessible
- Identify, support and enhance existing climate positive actions across the community, within the municipal government, and at other levels of government to accelerate meaningful climate action, in a manner that supports existing efforts of other organizations and avoids duplication of efforts

In-scope Objectives

- Work together to better understand the diverse perspectives across Hamilton's community to better provide advice and recommendations to Council and to City staff to ensure no one is left behind
- Support and advise on protecting biodiversity through the integration of western science combined with Traditional Ecological Knowledge and other sources of lived experiences with Mother Earth
- Provide advice to City staff and Council on other matters related to climate change and actions to address climate change, as may be identified from time to-time by Council or City

Q & A



Hamilton

THANK YOU