



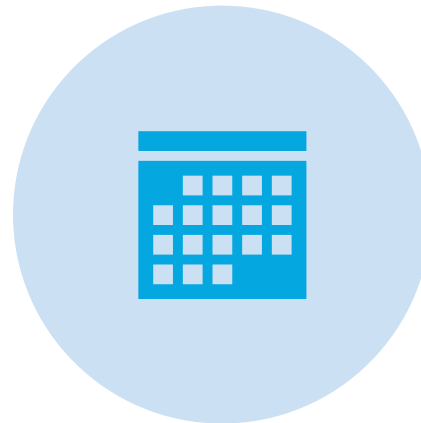
# CLIMATE CHANGE ACTION PLAN – UPDATE KICKOFF

May 7, 2024

# AGENDA



OVERVIEW OF THE  
PROJECT

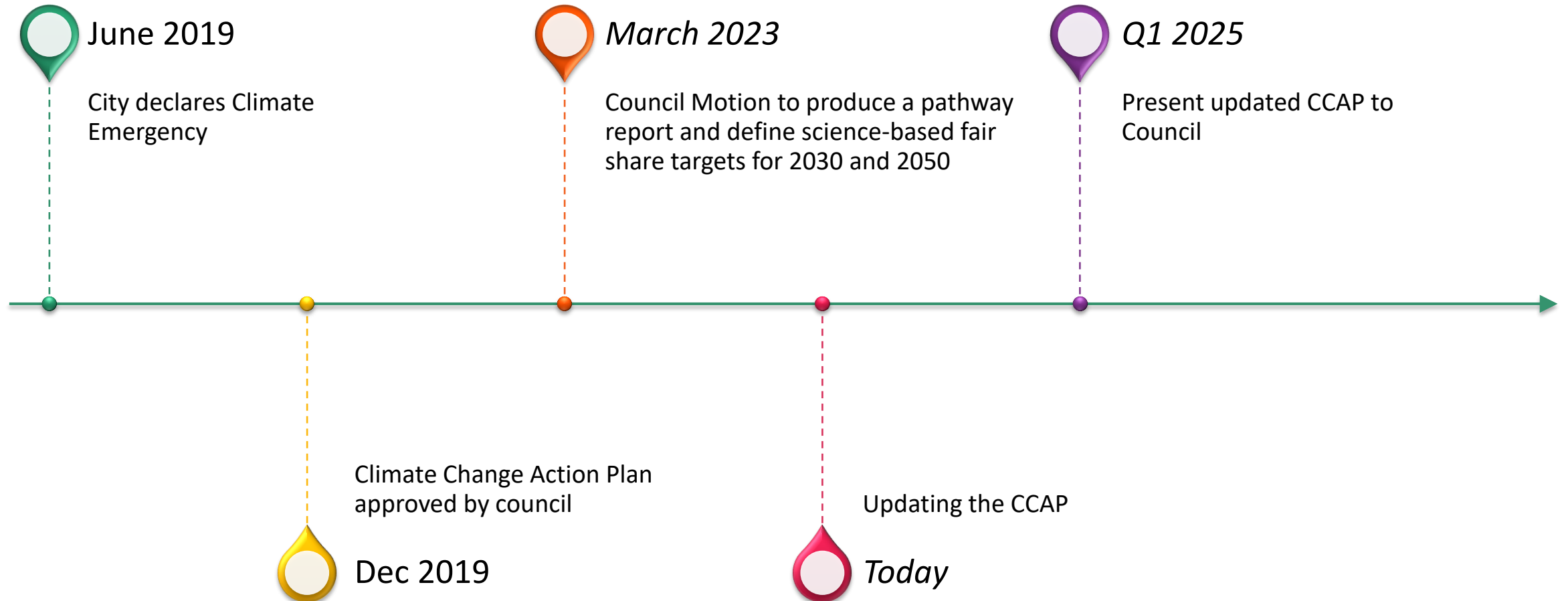


TIMELINES AND ROLES  
AND RESPONSIBILITIES



DISCUSSION AND NEXT  
STEPS

# KEY MILESTONES



# CLIMATE CHANGE ACTION PLAN (CCAP) – APPROVED IN 2019



# PROGRESS TO DATE



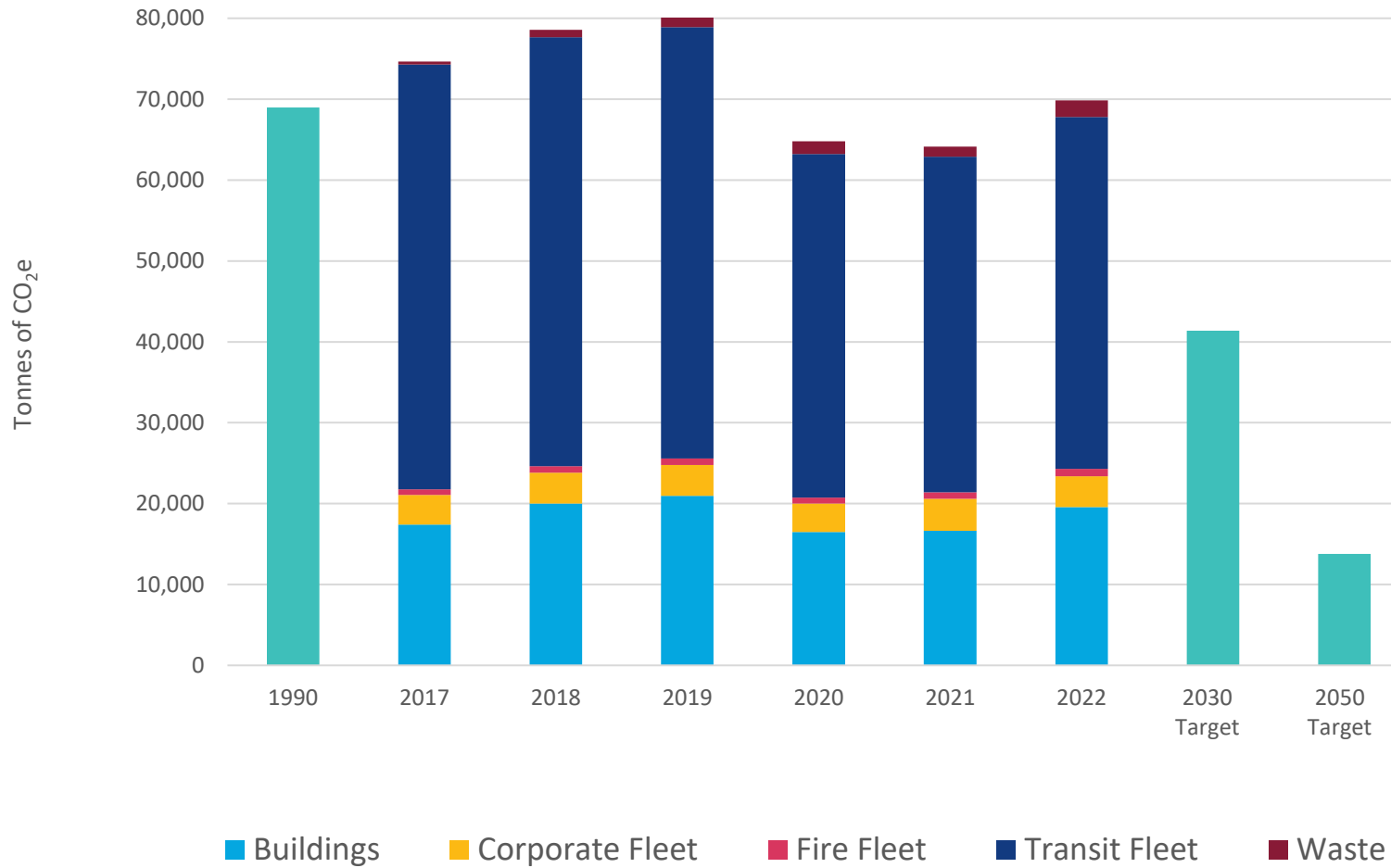
**89**  
**Actions**  
**Total**

80% of actions have  
been completed or are  
currently underway





# CORPORATE GHG'S

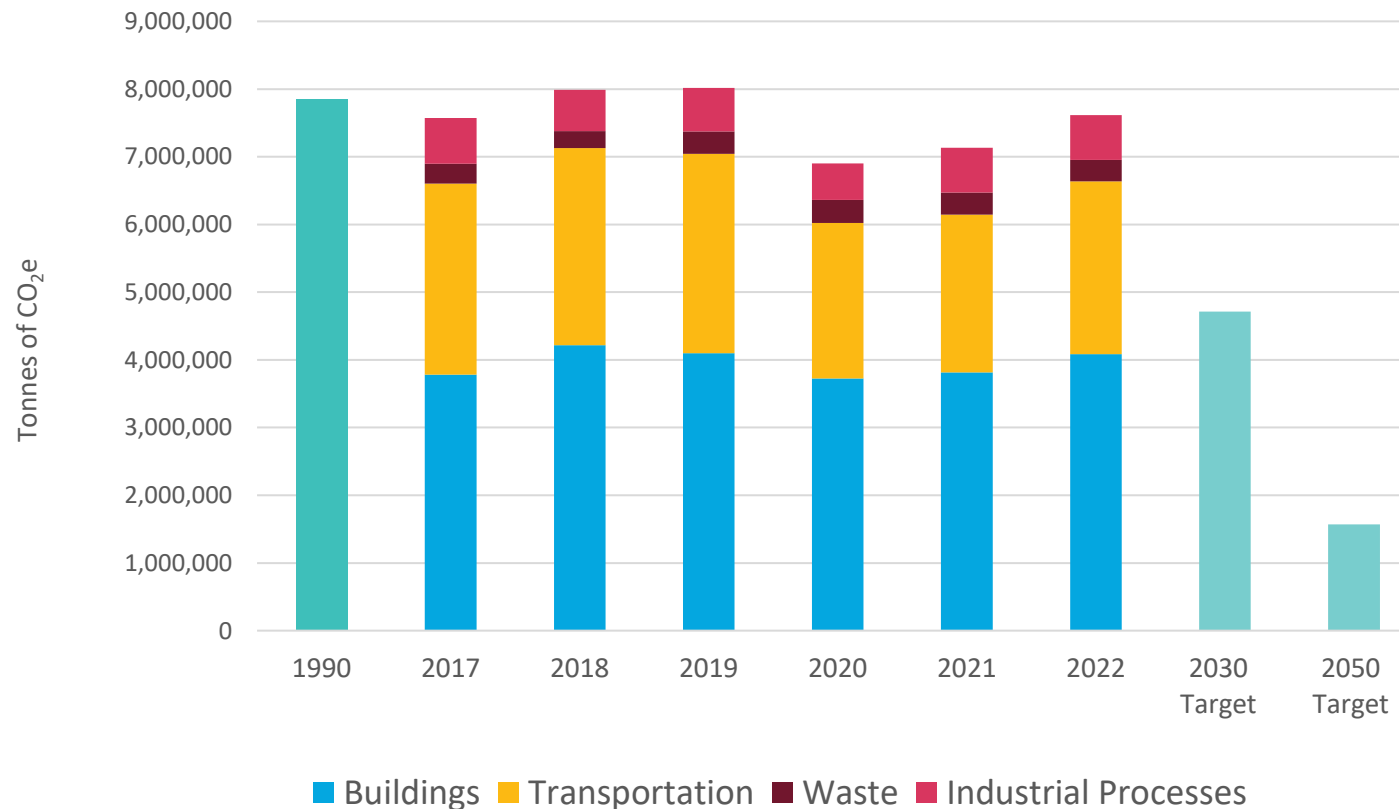


- Total Corporate Emissions in 2022 were 69,859 tonnes
- Emissions in 2022 are trending up to pre-pandemic levels
- Continued growth in City services means business as usual emissions will continue to grow without climate action
- As MiWay bus fleet continues to transition to low emissions, should see a positive impact on total GHGs.

Since 2019, MiWay's emissions have decreased by over 18% overall (over 10,000 tonnes)

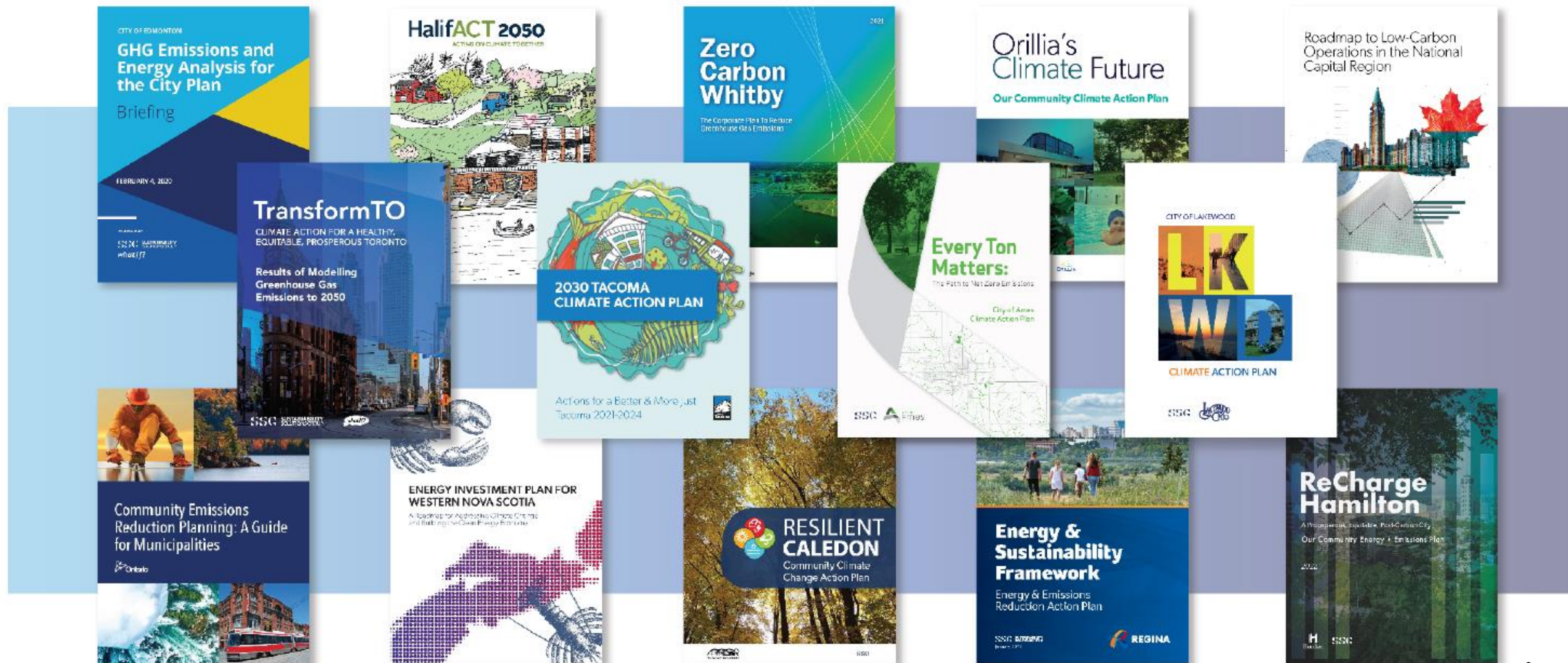


# COMMUNITY GHG'S



- Total Community Emissions for 2022 were 7,616,752 tonnes
- Steady growth in overall emissions as a result of post-covid return to normal
- Total transportation-related emissions are starting to trend down as EV uptake in particular is growing
- As we continue to electrify both transportation and building technologies, it is critical that the electricity grid in Ontario remains low carbon

# SUSTAINABILITY SOLUTIONS GROUPS (SSG)





# UPDATING THE CCAP



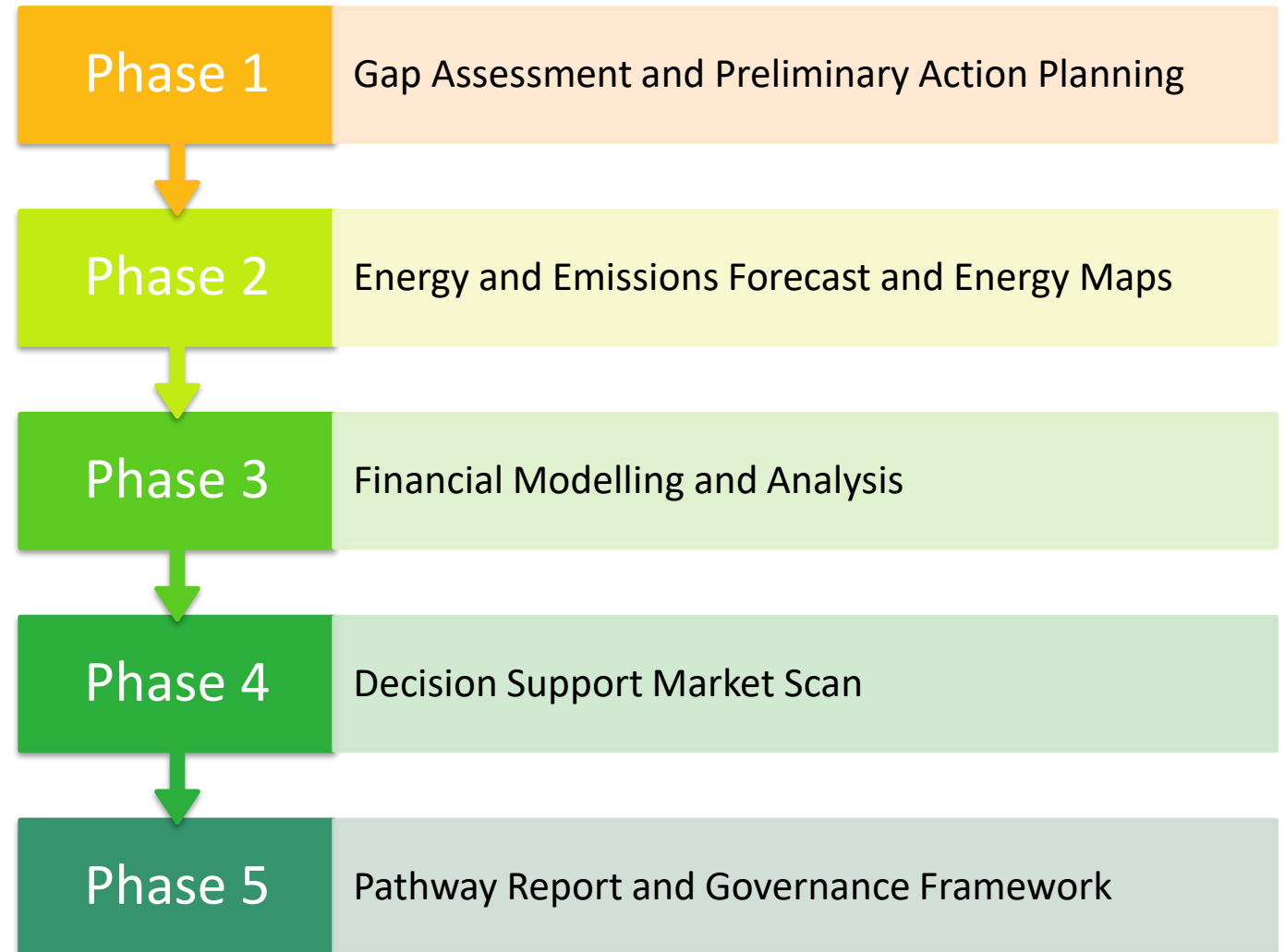
## **The updated Climate Change Action Plan will:**

1. Satisfy the commitment to update the 2019 CCAP every 5 years
  2. Address the March 2023 Council motion, which directed City staff to provide a Pathway Report to align with international best practices to limit global warming to 1.5 degrees Celsius
  3. Separate out climate change mitigation and adaptation into two distinct plans
  4. Focus on a net zero pathway (e.g. mitigation plan) for corporate and community emissions
- ☒ Climate change adaptation/resilience

# PROJECT OVERVIEW

## Goals:

- To evaluate the City's current GHG targets and propose accelerated targets
- Establish net-zero pathways for corporate and community emissions with new or enhanced mitigation measures to help meet new targets
- Estimate the costs and benefits to the City of implementing actions outlined in the Corporate and Community Pathways;
- Produce a Pathway Report and Governance Framework (which will serve as the updated CCAP)



# ENGAGEMENT

The goal is to ensure that all Mississauga residents have the opportunity to participate in and provide their feedback on the Plan Update.

This includes ensuring Mississauga residents:

- Are aware that the CCAP is being updated
- Understand the basic concepts around climate change, including the City's and their role in climate action
- Have meaningful opportunities to participate in the Plan Update, including the opportunity to provide feedback on the draft plan
- Can see how their feedback was considered in finalizing the plan





# TECHNICAL ADVISORY GROUP (TAG)



**Purpose:** To bring together community partners and experts

**Role:** Provide feedback at key points in the development of the preliminary action planning, energy and emissions forecasts and modeling, financial modeling analysis, and pathways reports.



| Consultant work<br>Meeting/Engagement<br>★ Key deliverable                             | Estimated deliverable date | 2024  |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    | 2025  |    |  |  |  |  |  |  |  |  |  |  |
|--|----------------------------|-------|---|---|---|-------|---|---|---|-----|----|----|----|------|----|----|----|------|----|----|----|--------|----|----|----|-----------|----|----|----|---------|----|----|----|----------|----|----|----|----------|----|----|----|---------|----|----|----|----------|----|----|----|-------|----|--|--|--|--|--|--|--|--|--|--|
|  |                            | March |   |   |   | April |   |   |   | May |    |    |    | June |    |    |    | July |    |    |    | August |    |    |    | September |    |    |    | October |    |    |    | November |    |    |    | December |    |    |    | January |    |    |    | February |    |    |    | March |    |  |  |  |  |  |  |  |  |  |  |
|  |                            | 1     | 2 | 3 | 4 | 5     | 6 | 7 | 8 | 9   | 10 | 11 | 12 | 13   | 14 | 15 | 16 | 17   | 18 | 19 | 20 | 21     | 22 | 23 | 24 | 25        | 26 | 27 | 28 | 29      | 30 | 31 | 32 | 33       | 34 | 35 | 36 | 37       | 38 | 39 | 40 | 41      | 42 | 43 | 44 | 45       | 46 | 47 | 48 | 49    | 50 |  |  |  |  |  |  |  |  |  |  |
| Phase 1: Gap Assessment and Preliminary Action Planning                                |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 1.01 Project Kick-off Meeting  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 1.02 Regular Check-in Meetings [ongoing]   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 1.03 Monthly Progress Reports & Invoicing [ongoing]                                    |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 1.04 Data Request  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 1.05 Technical Advisory Group (TAG) Assembly & Workshop #1: Gap Assessment             |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 1.06 Additional Staff & Stakeholder Meetings (maximum 3) Dates TBD                     |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 1.07 Gap Assessment  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 1.08 Initial Actions Identification  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 1.09 Internal Report: Gap Assessment & Recommended Actions                             |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| Phase 2: Energy and Emissions Forecast and Energy Maps                                 |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 2.01 Scope 3 GHG Inventory for Corporate & Community                                   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 2.02 Model Calibration   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 2.03 Data, Methods, and Assumptions (DMA) Manual                                       |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 2.04 TAG Workshop #2: Scenarios & Energy Mapping                                       |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 2.05 Scenario 1: Business as Planned (BAP), Corporate & Community                      |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 2.06 Scenario 2: Updated Pathway, Corporate & Community                                |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 2.07 Energy Mapping Analysis [updated and expanded maps]                               |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 2.08 Draft Report: GHG Energy & Emissions Forecast [staff to provide 1 round of edits] |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 2.09 Final Report: GHG Energy & Emissions Forecast                                     |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 2.10 Internal Communications Materials [staff to provide 1 round of edits]             |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| Phase 3: Financial Modelling and Analysis  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 3.01 TAG Workshop #3: Energy Forecasting Results                                       |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 3.02 Financial & Economic Analysis   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 3.03 Co-Benefits Analysis  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 3.04 Draft Report: Costs & Benefits of Actions [staff to provide 1 round of edits]     |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 3.05 Final Report: Costs & Benefits of Actions   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 3.06 Best Practices Review & Benchmarking: Financing Mechanisms                        |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 3.07 TAG Workshop #4: Financing  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 3.08 Identification of Recommended Financing Mechanisms                                |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 3.09 Staff Presentation: Financing Benchmarking & Recommendations                      |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 3.10 Public Communications Materials [staff to provide 1 round of edits]               |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| Phase 4: Decision Support Market Scan  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 4.01 Best Practices Review & Benchmarking: Decision Support Tools                      |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 4.02 Internal Report: Market Scan & SWOT Analysis of Decision Support Tools            |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| Phase 5: Pathway Report and Governance Framework                                       |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.01 TAG Workshop #5: Target Setting   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.02 Emission Reduction Targets  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.03 Final Actions Identification  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.04 TAG Workshop #6: Actions Prioritization   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.05 Prioritized Actions for Modelling   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.06 Final Low-Carbon Pathway, Corporate & Community                                   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.07 Monitoring & Evaluation Strategy  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.08 TAG Workshop #7: Implementation   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.09 Implementation & Governance Plan  |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.10 Draft Pathway Report [staff to provide 1 round of edits]                          |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.11 Public Communications Materials [staff to provide 1 round of edits]               |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.12 Public Engagement Support   |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |
| 5.13 Final Pathway Report [staff to provide 1 round of edits]                          |                            |       |   |   |   |       |   |   |   |     |    |    |    |      |    |    |    |      |    |    |    |        |    |    |    |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |          |    |    |    |       |    |  |  |  |  |  |  |  |  |  |  |

- ## Community Engagement



# ROLE FOR EAC

- How would EAC like to be engaged throughout this process?
  - Workshops
  - 1:1 Interviews/Discussions
  - Surveys
  - Deputations/Updates on Progress
- Our Ask:
  - Help us get the word out!
  - Updates will be posted here:
    - <https://yoursay.mississauga.ca/climate-change>



# THANK YOU

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