

MISSISSAUGA'S CLIMATE CHANGE ACTION PLAN

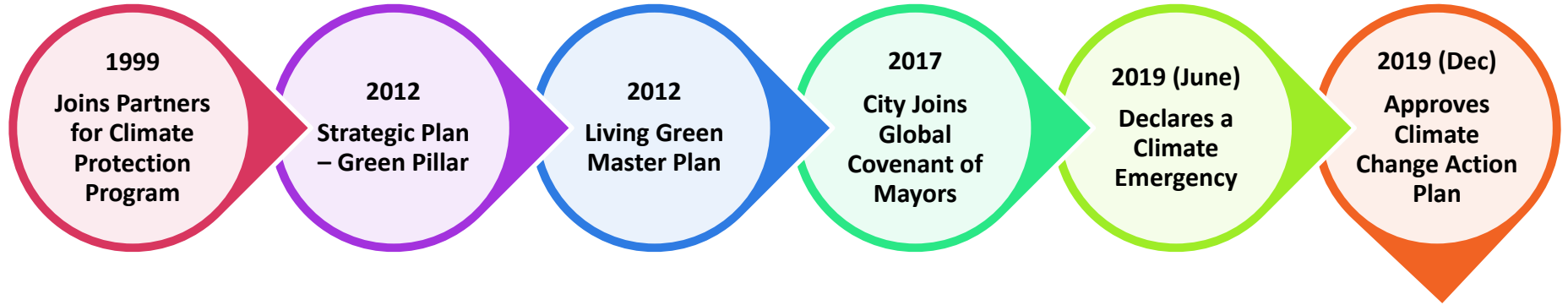
IMPLEMENTATION APPROACH



LCF - December 2, 2020

Leya Barry, Climate Change Specialist

TIMELINE



2020 1st full year of implementation

CLIMATE CHANGE ACTION PLAN



- Corporate **AND** Community

- **Mitigation AND Adaptation**

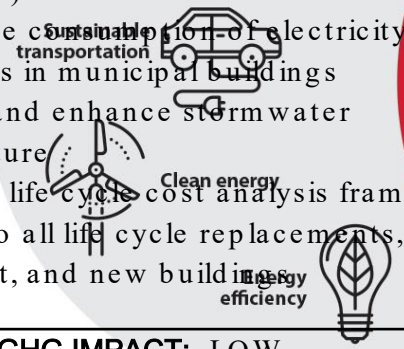
Actions the City has direct authority over.

- 1st ways the city can **lead by example**.

Example Actions

- Install renewable energy (e.g. solar panels) at municipal buildings
- Convert the corporate and transit fleets (and other equipment) to low or zero emissions
- Reduce the consumption of electricity and natural gas in municipal buildings
- Upgrade and enhance storm water infrastructure
- Develop a life cycle cost analysis framework to apply to all life cycle replacements, equipment, and new building

MITIGATION
ACTION TO REDUCE EMISSIONS



GHG IMPACT: LOW
RISK MITIGATION: MEDIUM-HIGH

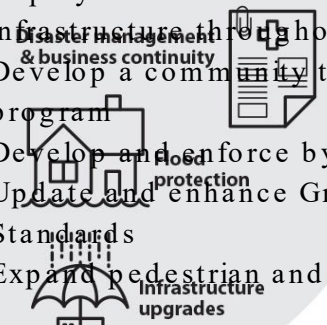
Community Actions

Actions that the City can lead or support to influence or encourage change in the community.

Example Actions

- Encourage developer-led efforts to include low carbon energy systems in new developments
- Deploy low-emissions vehicle charging infrastructure throughout the City
- Develop a community tree monitoring program
- Develop and enforce by-laws
- Update and enhance Green Development Standards
- Expand pedestrian and cycling infrastructure

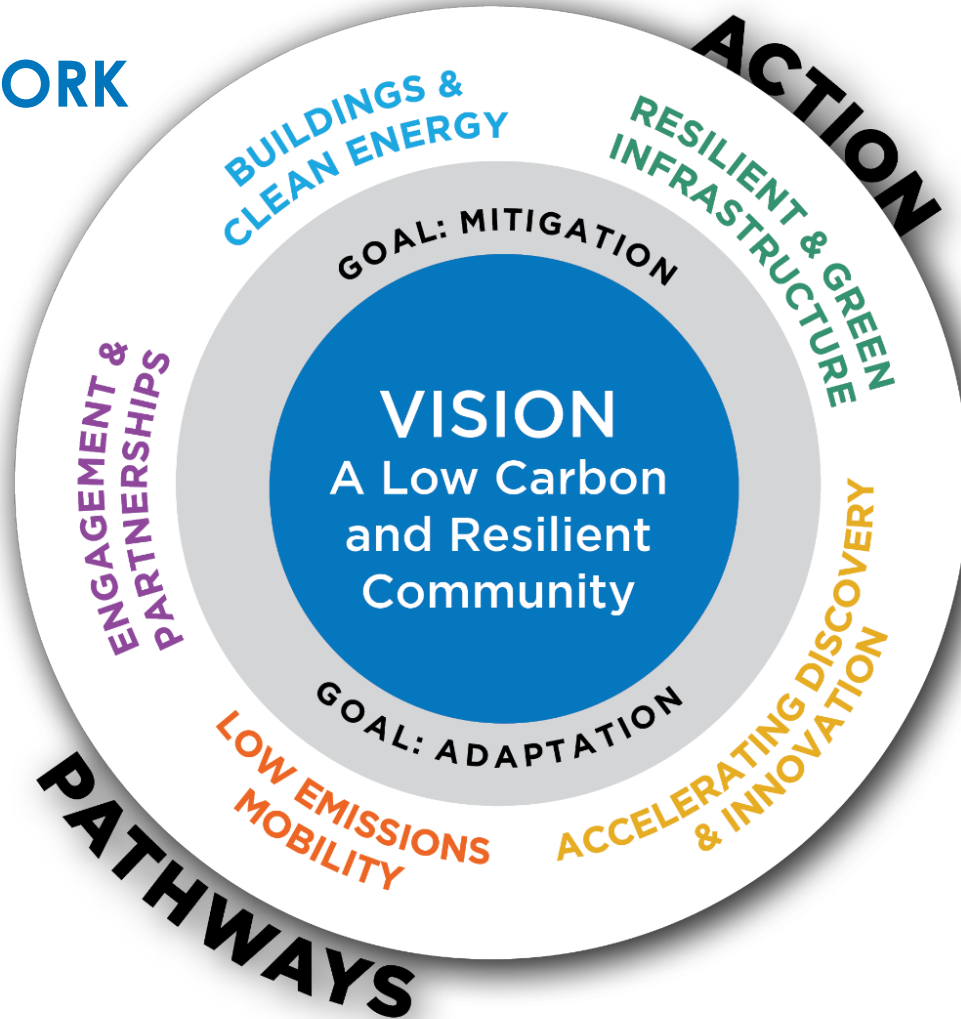
ADAPTATION
ACTION TO MANAGE THE RISKS OF CLIMATE CHANGE



GHG IMPACT: MEDIUM-HIGH
RISK MITIGATION: MEDIUM-LOW

Mississauga

FRAMEWORK



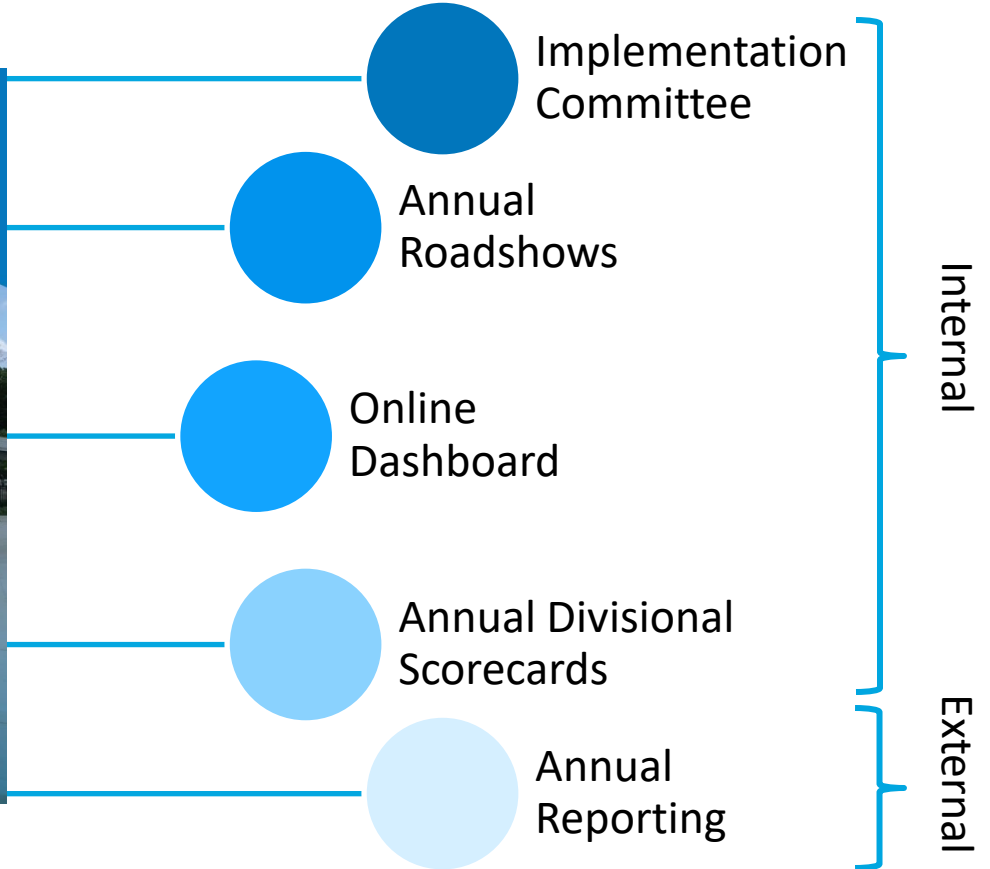
DRIVING IMPLEMENTATION



Key Drivers

1. Maintaining momentum in areas of interest/ongoing projects
2. Funding opportunities accelerating implementation
3. Policy/Legislative context
4. Foundational work/Pre-Cursor

IMPLEMENTATION FRAMEWORK



ROADSHOWS



- Annual meetings/check in's
- Why are they helpful?
 - Development and input into KPI's
 - “Face-to-face” interaction
 - Reinforces implementation commitments
 - Builds relationships
 - Spurs action/follow up

DASHBOARD (IN DEVELOPMENT)



Navigation Pane

Total Actions 89

Completed

Corporate GHG's

XXXX

Community GHGs

XXXX

XXXX

Completed

Division
Name

Division
Name

Division
Name

Division
Name

KPIs

All Actions

GHG Tracking

All Actions

SCORE CARD MOCK UP



Parks Forestry and Environment (Environment Section)

Role: The Environment Section is the keeper of the Climate Change Action Plan and is responsible for driving and supporting corporate and community actions.

2020

2020 LEAD ACTIONS		PMR	CURRENT STATUS
18-3	Develop a zero emissions vehicle strategy to accelerate the adoption of zero emissions vehicles	Leya Barry	Underway 😊
20-3	Develop targeted outreach and engagement opportunities for youth in Mississauga	Sam D.	Underway 😊
7-3	Develop a mechanism to valuate green infrastructure assets and the benefits of these assets to the community	Leya Barry	Planned 😊
9-4	Develop an urban agriculture and food security strategy	Lisa Urbani	Underway 😊
16-1	Develop a Corporate waste reduction strategy	Diane G.	Underway 😊
21-2	Develop a community climate leaders program to encourage, support, and empower key target audiences (e.g., youth, businesses) in Mississauga to take action	Teresa Chan	Not Initiated 😞

2020 SUPPORT ACTIONS		DIVISIONAL LEAD	CURRENT STATUS
2-1	Include policy direction in the City's Official Plan to support the Climate Change Action Plan	City Planning Strategies	Underway
2-2	Incorporate a climate impact lens in to streetscape design in the Downtown Public Realm Strategy and, once complete, consider applicability city-wide	Development and Design	Underway

Resource Needs

- # FTE's
- \$\$\$\$ in capital funding
- \$\$\$\$ in operating costs

Divisional KPI's

- % of actions lead or support
- # of implemented actions
- Corporate waste related GHGs
- # of community gardens
- Participants at city-run events
- Social media reach

SCORE CARD MOCK UP



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FUTURE ACTIONS

2021-2029 LEAD ACTIONS		PMR	CURRENT STATUS
7-3	Develop a mechanism to value green infrastructure assets and the benefits of these assets to the community	Leya Barry	Not Initiated
10-4	Create a community tree monitoring program to involve residents in the upkeep and maintenance of trees in their neighbourhoods	TBD	Not Initiated
11-2	Update Idling Control By Law and corporate policy (09-00-02 – Unnecessary Vehicle Idling) and explore enhanced enforcement models for personal, municipal, and freight vehicles	TBD	Not Initiated

Resource Needs

- FTE's
- \$\$\$\$ in capital funding
- \$\$\$\$ in operating costs

2021-2029 SUPPORT ACTIONS		PMR	CURRENT STATUS
12-3	Explore the use of green infrastructure to manage stormwater on publicly and privately owned properties (e.g., permeable paving, blue roofs)	Scott P.	Underway
9-1	Continue to create response plans for climate-related risks (e.g., heat) to ensure suitable warning systems and response procedures are in place during extreme weather events	Tim L.	Underway
1-3	Conduct a study to identify mechanisms to enhance community energy planning through the Official Plan or other planning tools (i.e. Development Master Plan) particularly in growth areas and areas for major redevelopment		Not Initiated

2020 CLIMATE SCORECARD: COMMUNITY SERVICES

Leading...

20

Actions

Supporting...

8

Actions

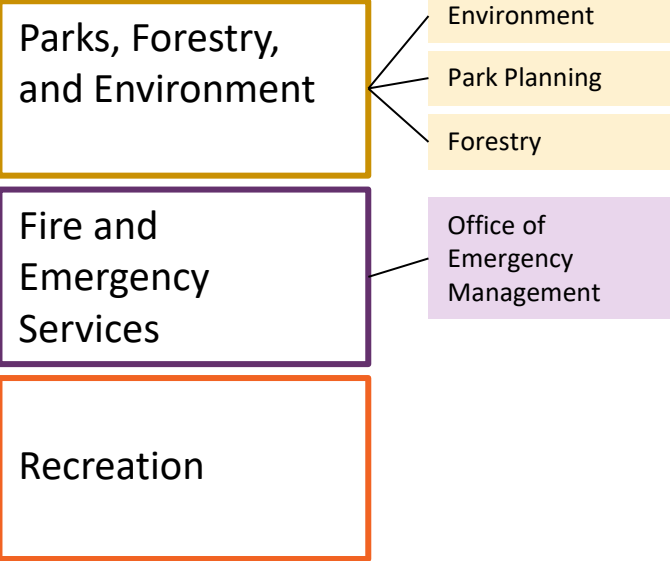
Top Wins

✓ 12 EV Chargers Installed

Top Concerns

× Technology not available

Divisions/Teams Responsible



City-Wide
KPI's

Total # of Implemented Actions	Total # of Implemented Actions	Total # of Implemented Actions	Total # of Implemented Actions
Corporate GHG Emissions	Corporate GHG Emissions	Corporate GHG Emissions	Corporate GHG Emissions

Departmental
KPI's

% of actions lead or support	# of trees planted in 2020 (and total)	Total # of Implemented Actions
% of tree canopy cover	participants in climate-related campaigns	Corporate GHG Emissions

ANNUAL REPORTING



The good, the bad, and the ugly

- Starting in 2021
- 10-15 pages
- Annual progress report (public) and report to Council
 - Implementation Highlights and KPIs
 - GHG Snapshot
 - Spotlights/Case Studies
- Key inputs: Internal score cards and dashboard metrics

Stay tuned for our first progress report coming this fall!

THANK YOU!

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CLIMATE CHANGE