

# BRAMPTON'S ENVIRONMENTAL PROGRAM: AN OVERVIEW





# BRAMPTON

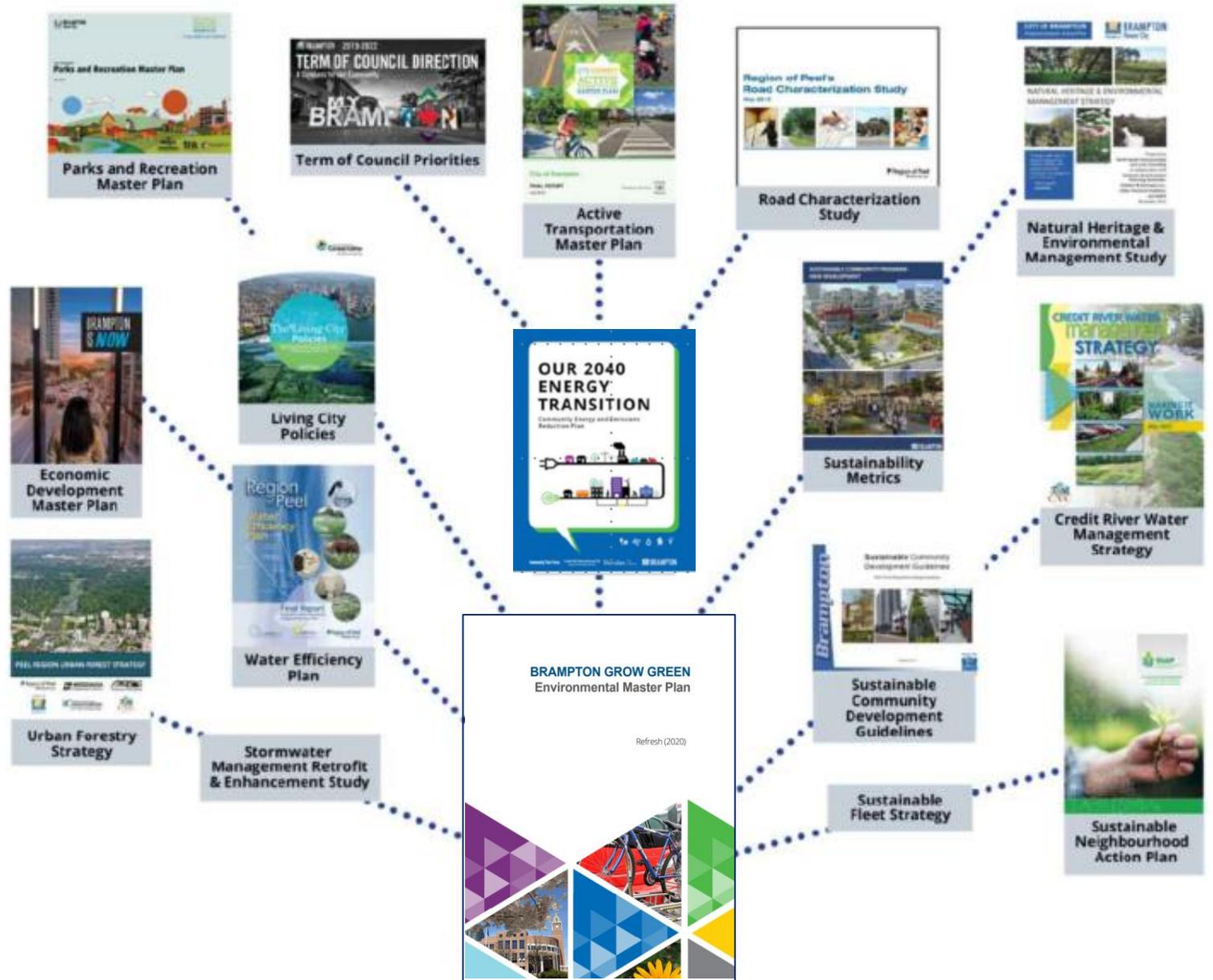
Environment Advisory Committee

# ENVIRONMENTAL PLANNING: WHAT DO WE DO

- Responsible for City's Environmental Sustainability Program and Natural Heritage Planning
  - ✓ Policy development
  - ✓ Development application review
  - ✓ Master Plan development and implementation
  - ✓ Corporate resource for environmental sustainability, climate change, conserving energy and reducing GHGs and natural heritage initiatives
  - ✓ Community outreach and education



# STRATEGIC FRAMEWORK:



# STRATEGIC FRAMEWORK: TERM OF COUNCIL STRATEGIC PRIORITIES 2022 - 2026

- Shared priorities of City Council over their term
- Six strategic directions, including “Environmental Resilience & Sustainability”
- June 19th workshop to prioritize the proposed Strategic Priorities
- Council Strategic Priorities will shape our projects and initiatives



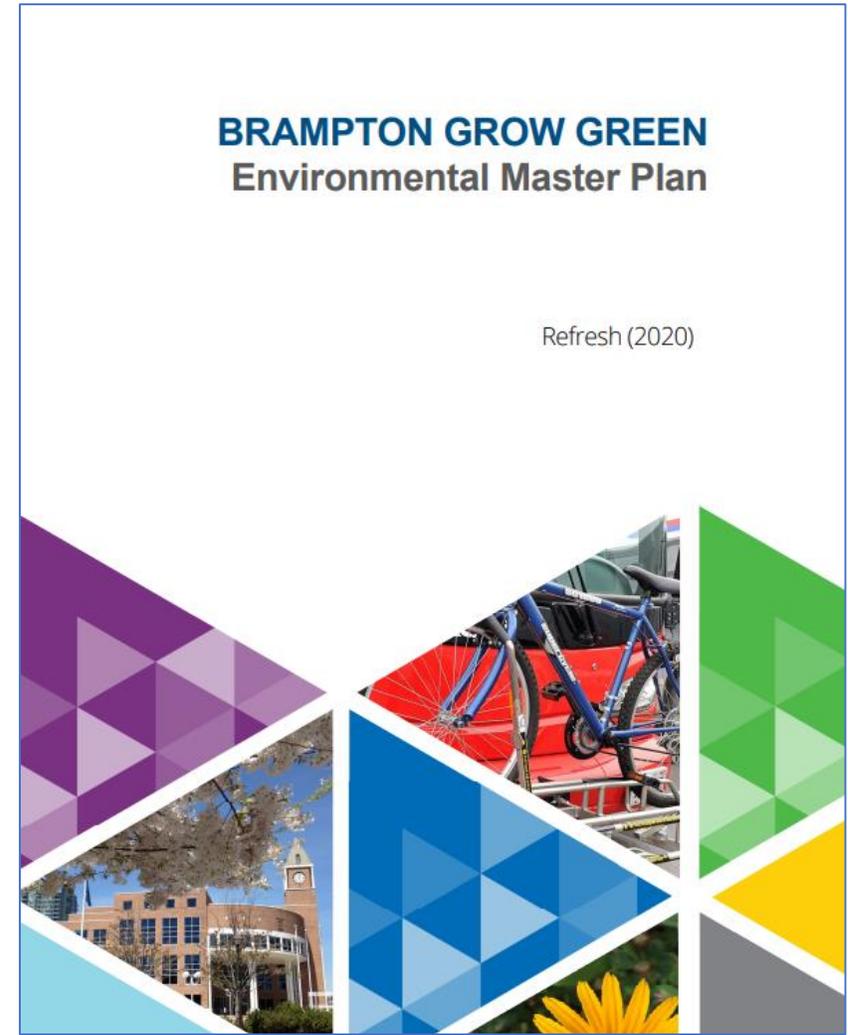
# STRATEGIC FRAMEWORK: CITY OF BRAMPTON OFFICIAL PLAN

- Policy document that guides short-term and long-term development
- Provides a vision for Brampton
- Acts as a road map for city-building
- Land use, built form, transportation, natural heritage, etc.
- Update to the Official Plan currently underway, expected to be completed November.



# STRATEGIC FRAMEWORK: BRAMPTON GROW GREEN

- Environmental sustainability framework for corporate and community actions
- Approved by Council in 2014
- Core components of People, Air, Water, Land, Energy, Waste
- Council approved an update 2021 with a new action plan
- Action Plan is comprised of approximately 60 actions items for a greener Brampton



# STRATEGIC FRAMEWORK: NHEMS

- Natural Heritage and Environmental Management Strategy
- Approved by Council in 2015
- Strategy is a proactive approach to ensure that the abundance of natural heritage and built green spaces in Brampton are protected, enhanced, and restored.
- Priority goal within the NHEMS is to manage, restore, and enhance the natural heritage, urban forests, parks, and green infrastructure to maximize ecosystem services.
- Includes Action Plan, metrics, and targets

CITY OF BRAMPTON  
Implementation Action Plan

BRAMPTON  
Flower City

NATURAL HERITAGE & ENVIRONMENTAL  
MANAGEMENT STRATEGY

"A thing is right when it tends to preserve the integrity, stability, and beauty of the biotic community. It is wrong if it tends otherwise"  
- Aldo Leopold  
Land Ethic

Prepared by  
North South Environmental  
and Lura Consulting  
in collaboration with  
Sorensen Gravely Lowes  
Planning Associates,  
Schollen & Company Inc.,  
Urban Forest Innovations,  
and AMEC  
December 2015

# STRATEGIC FRAMEWORK: ECO PARK STRATEGY

- **Brampton Eco Park** is the interconnected network of sustainable urban and natural spaces interwoven and embedded in the city's urban form.
- Strategy was approved in 2020 by Council
- Principles:
  - Maximize ecological value
  - Reflect local identity
  - Provide opportunities for social services
  - Design with nature
  - Support innovation
  - Integrate with the surrounding community
  - Make nature visible



# STRATEGIC FRAMEWORK: URBAN FOREST MANAGEMENT PLAN

- The City approved its first UFMP in August 2022.
- Provides strategic guidance intended to maximize the environmental, social, economic, and health benefits that trees provide to the community.
- Guiding Principles:
  - Recognizing the urban forest as an essential municipal infrastructure
  - Collaboration and engagement with stakeholders
  - Developing sustainable urban forest management
  - Prioritizing preservation over replacement
  - Equitable access for all residents
  - Creating a diverse urban forestry
  - Implementing adaptive management and innovation



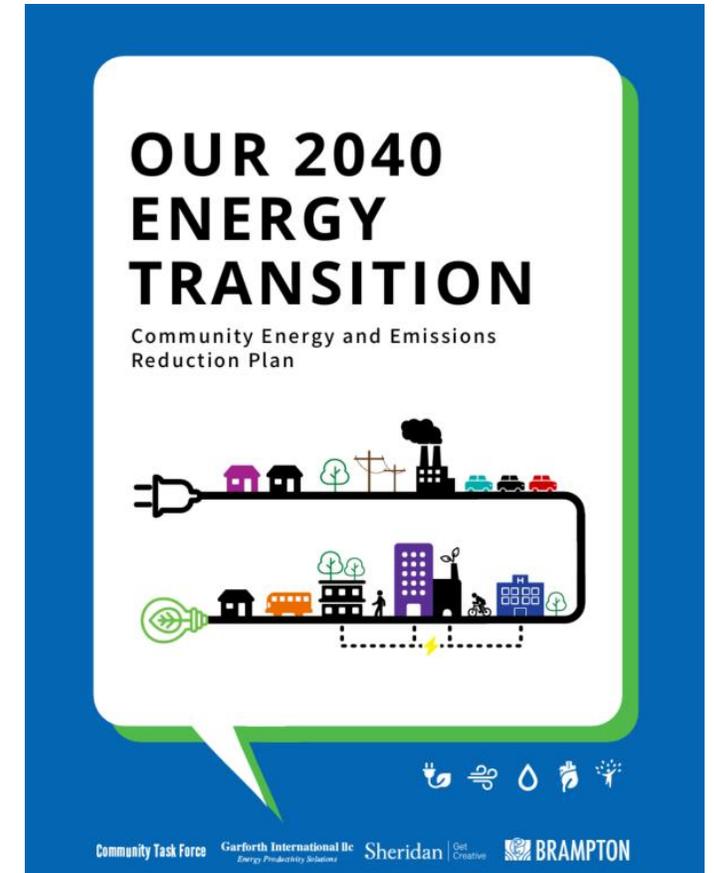
City of Brampton  
Urban Forest  
Management Plan  
2022-2032

# KEY INITIATIVES

# KEY INITIATIVE: CEERP

## COMMUNITY ENERGY & EMISSIONS REDUCTION PLAN

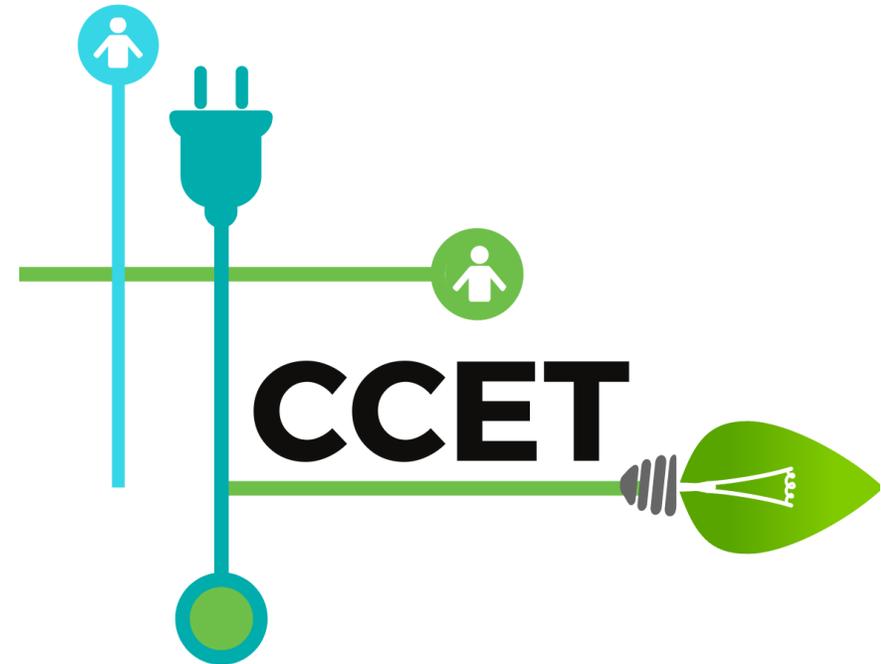
- Improve energy efficiency, reduce GHGs, stimulate economic development
- Set out energy efficiency and greenhouse gas emission reduction targets
  - 30% reduction in GHG emissions from 2016 levels by 2030,
  - 50% reduction by 2040, and
  - a pathway to reach 80% reduction by 2050
- Contains actions under six strategic directions
- Approved September 2020



# KEY INITIATIVE: CCET

## CENTRE FOR COMMUNITY ENERGY TRANSFORMATION

- Community-based non-profit organization to lead the energy transformation in Brampton and Peel Region and implement actions from the CEERP
- 4 Key Priority Areas:
  - Advancing deep home retrofits
  - Encouraging district energy
  - Spurring industrial, commercial, institutional energy efficiency
  - Promoting outreach and engagement related to climate change
- Council approved CCET funding in 2022
- Executive Director hired June 2023



# KEY INITIATIVE: CCAP

## CLIMATE CHANGE ADAPTATION PLAN

- Five-year plan to make Brampton a climate ready, resilient City
- Identify climate change risks & impacts, develop actions to reduce our vulnerability to these impacts
- Identified as an action in the Brampton Grow Green EMP
- Requirement of our membership to the Global Covenant of Mayors for Climate and Energy
- **Current status:** Development of a Risk and Vulnerability Assessment Report



# KEY INITIATIVE: NHRP

## NATURAL HERITAGE RESTORATION PROGRAM

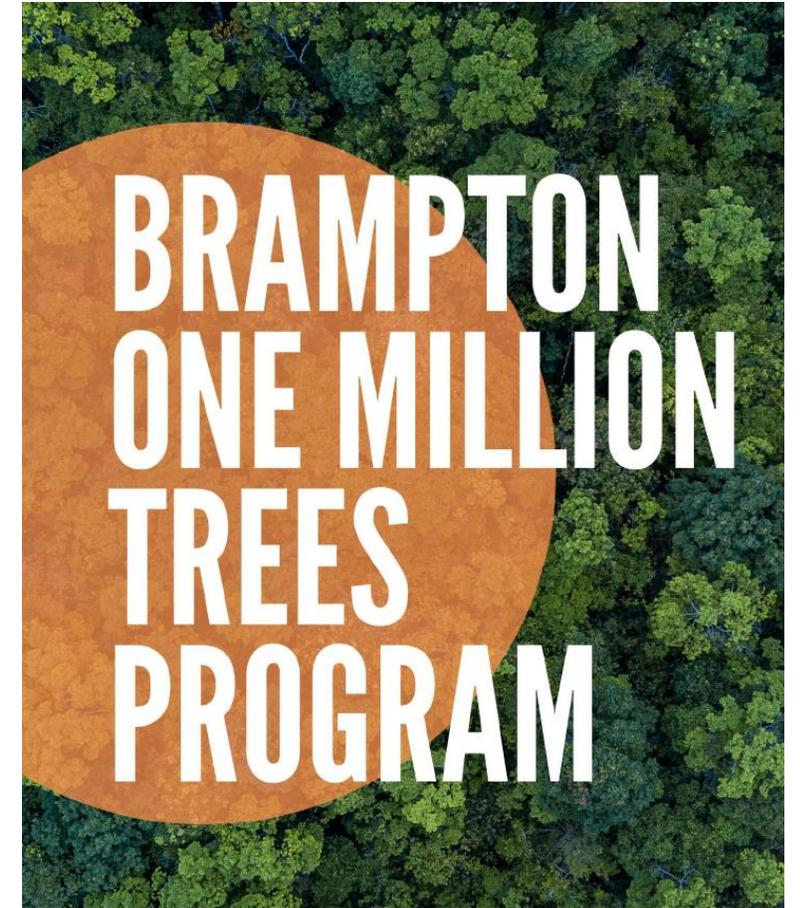
- In 2018, the City of Brampton launched the Natural Heritage Restoration Program (NHRP) which focuses on protecting, restoring, connecting and enhancing the health and biodiversity of our Natural Heritage System.
- Goal of the program is to manage Brampton's natural features to maximize the ecosystem services they provide.
- Program allows the City to identify and prioritize areas for restoration or enhancement.
- Focus on partnerships with Conservation Authorities, community groups and residents.



# KEY INITIATIVE: OMTP

## ONE MILLION TREES PROGRAM

- In February 2020, Brampton Council approved the Brampton 1 Million Trees Program - a framework for the City and its partners to increase tree planting initiatives and realize the target of one million trees by 2040.
- Key themes: tree planting, tree stewardship, partnerships, education and outreach, urban forest monitoring, and resource planning.



# KEY INITIATIVES: SNAP

## SUSTAINABLE NEIGHBOURHOOD ACTION PLANS

- Environmental improvements and urban renewal of existing neighbourhoods
- Partnership with Conservation Authorities and Region of Peel
- **County Court SNAP (TRCA)**
  - Completed
- **Fletcher's Creek SNAP (CVC)**
  - Implementation phase
- **Bramalea SNAP (TRCA)**
  - Implementation phase



# KEY INITIATIVES

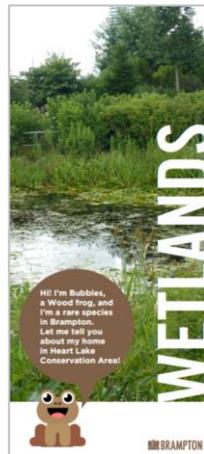
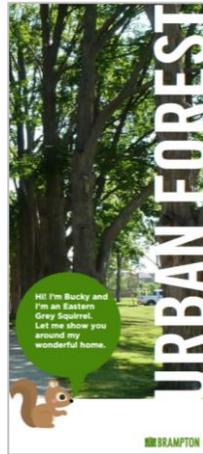
## SUSTAINABLE NEW COMMUNITIES PROGRAM

- Encourages and evaluates the sustainability performance of new development
- Originally launched in 2015
- Updated program approved unanimously by Council in May 2022; launched July 1, 2022
- Over 120 Sustainability Metrics
- Minimum Bronze threshold
- As of January 2023, applicants must meet a minimum building energy/GHG performance



# KEY INITIATIVES

## OUTREACH & EDUCATION



# KEY INITIATIVES

## OUTREACH & EDUCATION



*BEAC at Farmers Market*



*Earth Day 2017*



*Massey Woodland Engagement*



*Parks Environmental Education Program*



*Active Transportation Plan Engagement*



*Farmers Market*

# KEY INITIATIVES

## OUTREACH & EDUCATION

### Grow Green Network

#### *Email Network*

- Collective of local organizations focusing on environmental stewardship and sustainability
- Members of the public interested in environmental actions
- Over 1,000 subscribers



# PARTNERSHIPS



# YOUR ROLE:

## COMMUNITY ENGAGEMENT

- Primary role is to assist, educate, and engage the community
  - Identifying opportunities for community engagement
  - Reviewing and distributing communication materials
  - Coordinating and hosting community events
- Build and maintain meaningful and effective relationships with community organizations



# Brampton Grow Green

# Environmental Master Plan



## VISION

Brampton is a community that will conserve, enhance, and balance our natural and built environments to create a healthy, resilient, and sustainable city. We will carry out our responsibilities to meet the needs of the present community without compromising the ability of future generations to meet their own needs.

# GROW GREEN FRAMEWORK

## PEOPLE



Invest in people to create a healthy, livable, and safe community.

## AIR



Reduce impacts on air quality.

## WATER



Protect and respect water as a non-renewable, life critical resource.

## LAND



Manage land to sustain the natural environment.

## ENERGY



Reduce energy consumption and manage the impact of energy usage on our environment.

## WASTE



Reduce and manage the materials considered waste.

# ACTION PLAN: EXAMPLES



## PEOPLE

- Develop and publish a Brampton Green Business Inventory
- Establish an Environmental Education Centre.



## AIR

- Establish policies for new and existing City facilities to strive to achieve and maintain net zero emissions.
- Develop enforcement strategy for anti-idling.



## WATER

- Establish a water quality monitoring program for stormwater management assets.
- Update Salt Management Strategy for City's operations.



## LAND

- Develop a Woodland Management Strategy for City owned woodlands.
- Update City by-laws to ensure they do not restrict designed naturalization efforts on public and private lands.



## ENERGY

- Reduce City building energy use intensity/year.
- Reduce community energy use per capita per year.
- City energy supply coming from on-site renewable sources.



## WASTE

- Develop implementation of a Waste Diversion Strategy for City indoor and outdoor facilities.
- Develop policies & procedures for lifecycle assessments.



# PERFORMANCE METRICS

## Core Component

## Indicators

## Metrics



Engagement

Events and participation



GHG Emissions  
Transportation

GHG emissions  
Trips/capita, and VKT



Water Consumption  
Water Course Restoration

Potable Water Demand  
Meters Restored



Urban Tree Canopy  
Built Environment

Trees Planted  
Rate of Intensification,  
and NHS protection



Energy Demand  
Renewable Energy

Building energy intensity  
Renewable energy supply



Solid Waste

Waste diversion

# IMPLEMENTATION

## 1. GROW GREEN TEAM

Internal cross departmental team championing the Brampton Grow Green Environmental Master Plan.

## 2. PERFORMANCE MONITORING

Gathering performance data, defining lessons learned, and reporting progress.



# ACTION PLAN & PERFORMANCE METRIC REFRESH

- Implementation Action Plan and Performance Metric refresh
  - Support the *Brampton Grow Green* vision, guiding principles, and goals
  - Reflect knowledge garnered from first five years of implementation
  - Align with new Term of Council priorities
  - Connect to the City's strategic documents and their long-term vision
  - Integrate the community's desired direction for the future of Brampton
- Iterative process
- Including consultation with BEAC



Most progress



Least progress

# SOME ACHIEVEMENTS



# YOUR NEXT STEPS

- Review work plan of previous term of EAC
- Establish priorities for current term of EAC
- Develop formal work plan
- Establish sub-committees, as needed



# THANK YOU

