



Circular Economy Consortium

Environmental Sustainability

March 27, 2024



CELEBRATE

2024 Circular Economy Planning

1. 2023 Annual Diversion Metrics
2. Reduction of SUI Policy
3. Special Events
4. Surplus Assets Solutions
5. Strategy Development
6. Environmental Sustainability Initiatives

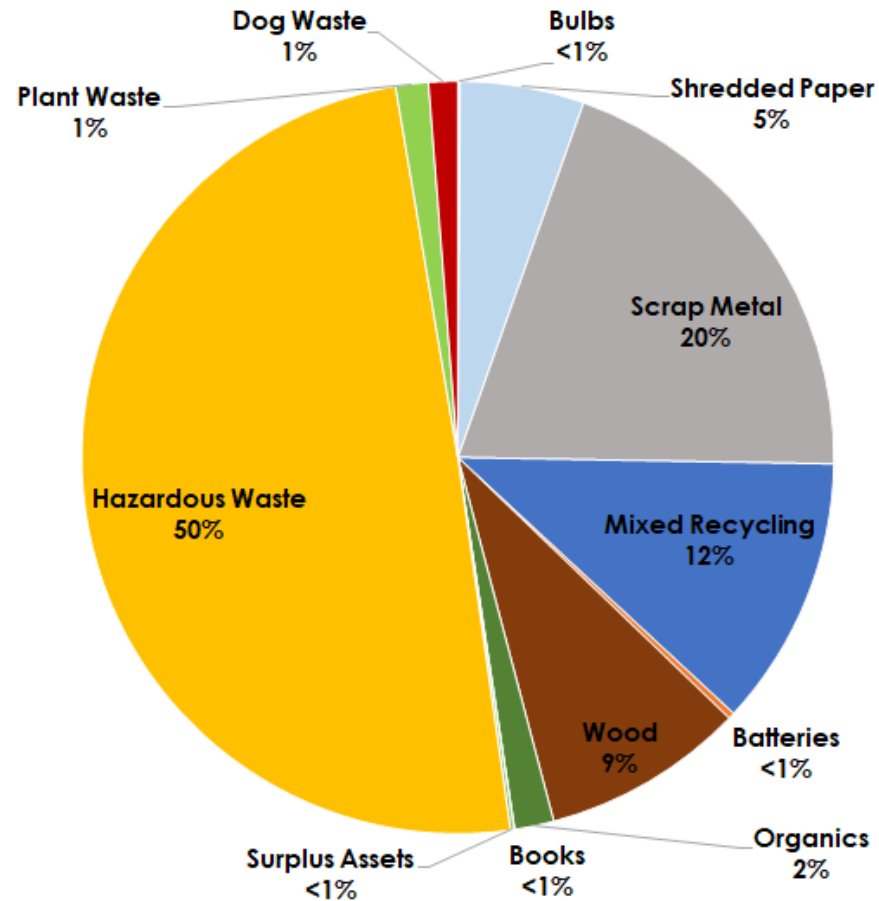


2023 Annual Diversion Metrics



2023 Diverted Materials

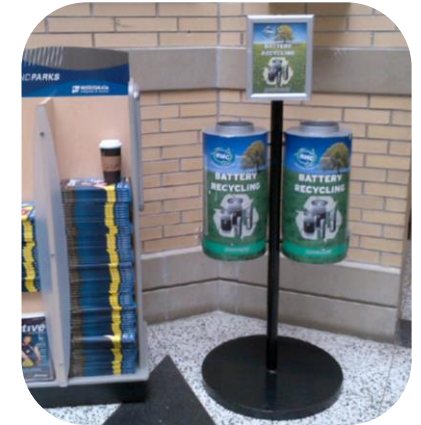
The City currently operates 12 different waste diversion programs:




Take charge.
Recycle your batteries!

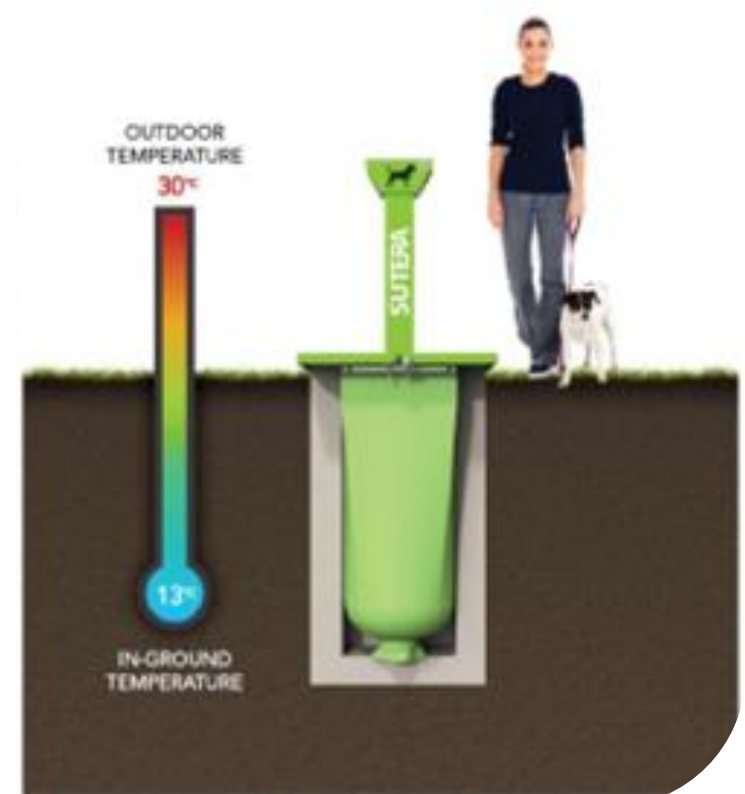
Disposing of them has never been easier. Just drop them off at one of our battery recycling centres, located in all Mississauga libraries and Community Centres.

mississauga.ca/environment

Dog Waste

- Specialized underground dog waste collection waste containers located at 18 parks with 24 units
- Managed by the Parks Operations team and Animal Services
- Diverted a total of 20.6 metric tonnes of waste in 2023



Reduction of Single-use Items in City Facilities and Operations Policy



Key Drivers

2018 Council Decision

CoM commitments:

- Educate and promote the reduction of waste with a focus on single-use plastics (SUP)
- Reduce SUPs from use or purchase within internal operations

2022 Federal Plastic Ban

Prohibit the manufacture, import and sale of:

- Plastic checkout bags
- Problematic plastics (foam)
- Cutlery
- Ring carriers
- Stir sticks and straws

Mississauga Environmental Protection

Waste and litter reduction initiatives guided by:

- Corporate Zero Waste Strategy
- Circular Economy Roadmap
- Climate Change Action Plan
- ownyourlitter.ca

Policy Purpose

- Limit the purchase and use of common single-use items in City facilities and operations
 - Lead to changes in procurement decisions (LVA, MVA, HVA)
- Educate staff and provide tools for sourcing alternatives
 - Reduction of Single-use Items Guidebook
- Measure impact



Source: District Municipality of Muskoka



Policy Scope

“Single-use Items” means items made from materials that are not durable and are intended for short-term use (e.g. plastic cutlery, plastic food containers)

Exclusions:

- Where alternatives are unavailable
- Accessible and health & safety items
- Food handling equipment
- Items that can be readily recyclable in Mississauga



Roles and Responsibilities

Environment Section:

- Reporting to leadership
- Identifying opportunities for collaborative work
- Monitoring legislative requirements
- Educating staff
- Identify single-use items commonly used
- Guidebook update, as needed

Procurement:

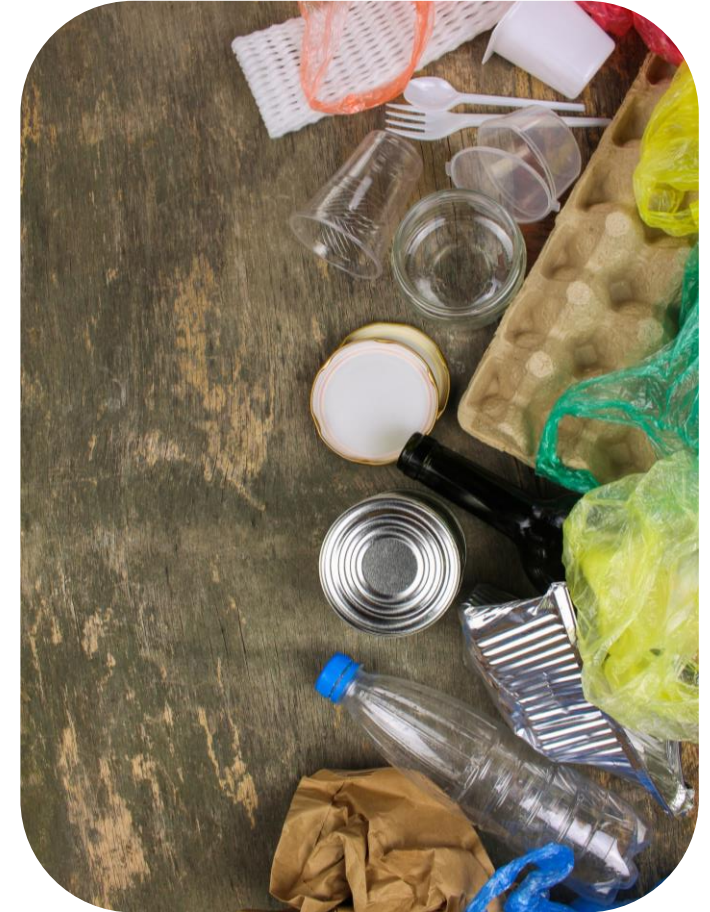
- Collaborating with Environment for single-use item identification through invoices
 - Gordon Food Services, Weber
- Consulting with clients to promote product specifications
- Providing annual procurement data



Roles and Responsibilities






All Employees

- Consulting the Reduction of Single Use Items Guidebook as applicable/appropriate
- Participating in training on this policy with respect to their specific job function, where applicable, and
- Identifying and implementing opportunities to reduce the use of Single-use Items
 - Purchasing alternatives
 - Hiring vendors with SUI guidelines
 - Ensuring giveaways and promotional items are designed for reuse



Reduction of Single-use Items Guidebook

- Provides recommendations and alternatives to commonly used single-use plastics
- Other items for reduction
 - Disposable coffee pods
 - Paper towels
 - Hot and cold beverage cups
 - Giveaways
 - Single-use condiments
- Litter-free lunches
- Special events and Meetings
- Surplus Assets Solution

	Federal Banned Plastic Items				
Recommendations	Checkout Bags	Cutlery	Expanded Polystyrene Foam Products	Stir Sticks	Straws
					
Alternatives	<ul style="list-style-type: none"> • Reusable bags • Paper bags • Compostable bags 	<ul style="list-style-type: none"> • Reusable cutlery • Wooden/bamboo cutlery 	<ul style="list-style-type: none"> • Reusable containers and cups • Compostable containers and cups 	<ul style="list-style-type: none"> • Reusable cutlery • Wooden/bamboo stir stick 	<ul style="list-style-type: none"> • Reusable straws • Paper/compostable straws
Reduction	<ul style="list-style-type: none"> • Providing upon request • Adding fees • Cost or product incentives 	<ul style="list-style-type: none"> • Using reusables • Purchasing alternative materials • Adding fees • Providing washing stations • Cost or product incentives 	<ul style="list-style-type: none"> • Using reusables • Purchasing alternative materials • Adding fees • Providing washing stations 	<ul style="list-style-type: none"> • Using reusables • Purchasing alternative materials • Adding fees • Cost or product incentives 	<ul style="list-style-type: none"> • Providing upon request • Using reusables • Using alternative materials • Adding fees • Providing washing stations
Recyclable/ Compostable	<ul style="list-style-type: none"> • Paper bags recyclable in City of Mississauga • Only certified compostable bags accepted in compost program 	<ul style="list-style-type: none"> • Recyclable options currently unavailable • Wood/Bamboo as compostable 	<ul style="list-style-type: none"> • #1 Plastic PET as recyclable alternative • Only certified compostable packaging accepted in compost program 	<ul style="list-style-type: none"> • Recyclable options currently unavailable • Wood/Bamboo as compostable 	<ul style="list-style-type: none"> • Recyclable options currently unavailable • Paper as compostable



Next Steps: Implementation

- Internal Communication and Marketing
- Internal Stakeholder Training
 - Procurement, Food Services and Culture & Recreation
- Develop key performance indicators:
 - Measuring purchases (Procurement Services)
 - Waste composition studies (3rd party audits)



Central Library Reno



Special Events



Special Events Pilots

Economic Development Office

- Mississauga Climate Leaders Program
 - Waste-free workshops: Food selection, renting dishware, cutlery from Meadowvale Party Rentals and C Banquets

PF&E

- Divisional Meeting
 - Renting dishware and cutlery from MUUSE
 - Renting tablecloths (C Banquets)



Celebration Square Event Pilot



- Waste-sorting station
- Food waste and single-use item reduction with reusable dishware rental



Reusable Beverage and Food Containers

Muuse in Toronto

Muuse is like the library for reusable packaging - users can borrow items for up to 30 days and return to any participating location.

Our FREE service has helped to avoid over 150,000 single-use items from cafes, restaurants, grocery stores and events across Toronto.



Pick-up Service



Source: Muuse Canada



Evergreen Brickworks Farmer's Market



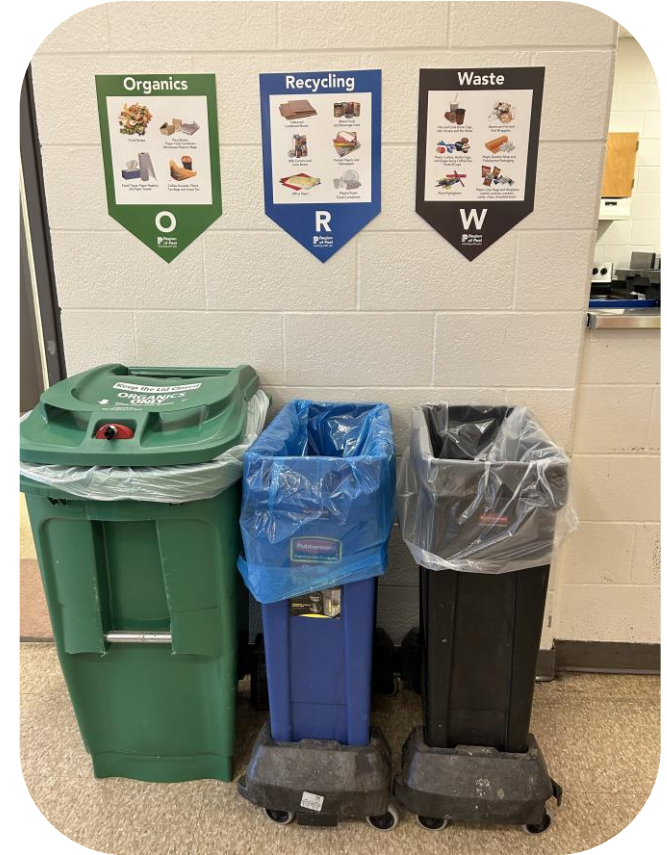
Muuse Reuse/Return Model



- Reusable takeaway containers and coffee cups with educational resources
- Durable plates, bowls, utensils made of polypropylene #5 plastic
- 99% return rate at Evergreen Brickworks
- Multiple collection points with return bins and permanent bins coming soon



Divisional Team Meeting



Waste Sorting Station

- Space on the Square for a 10x10 tent
- Dual-stream waste containers and liners
- Waste sorting signage and posters
- Staff to sort materials and provide waste resources and education to residents
- Organics carts and recycling roll-off bins provided and collected by Peel Region

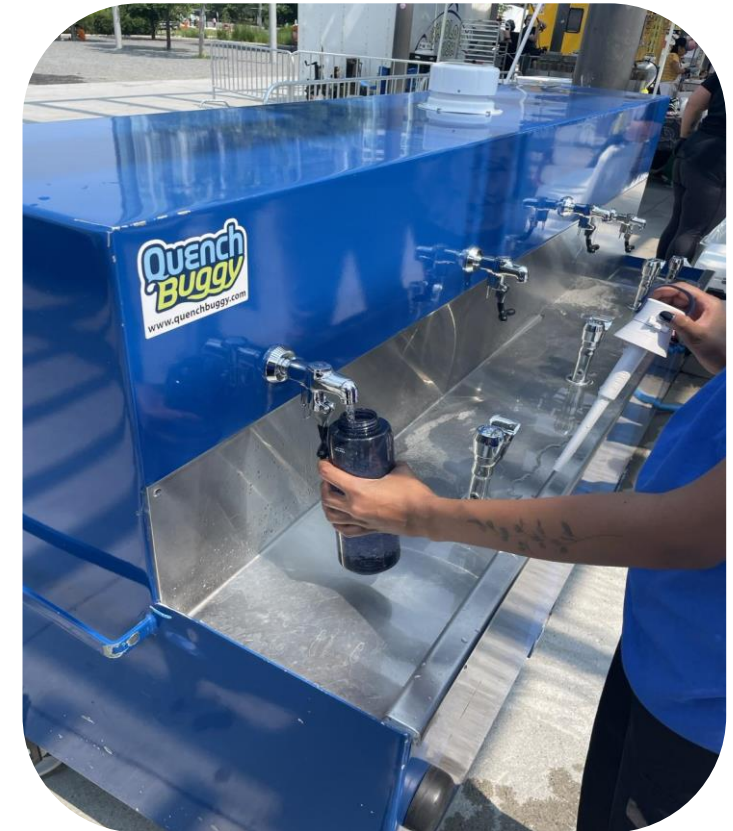


Water Refill Stations

- Seasonal water refill stations
Celebration Square
- Rental water refill stations (e.g.
Quench Buggy)



Refill station



Quench Buggy



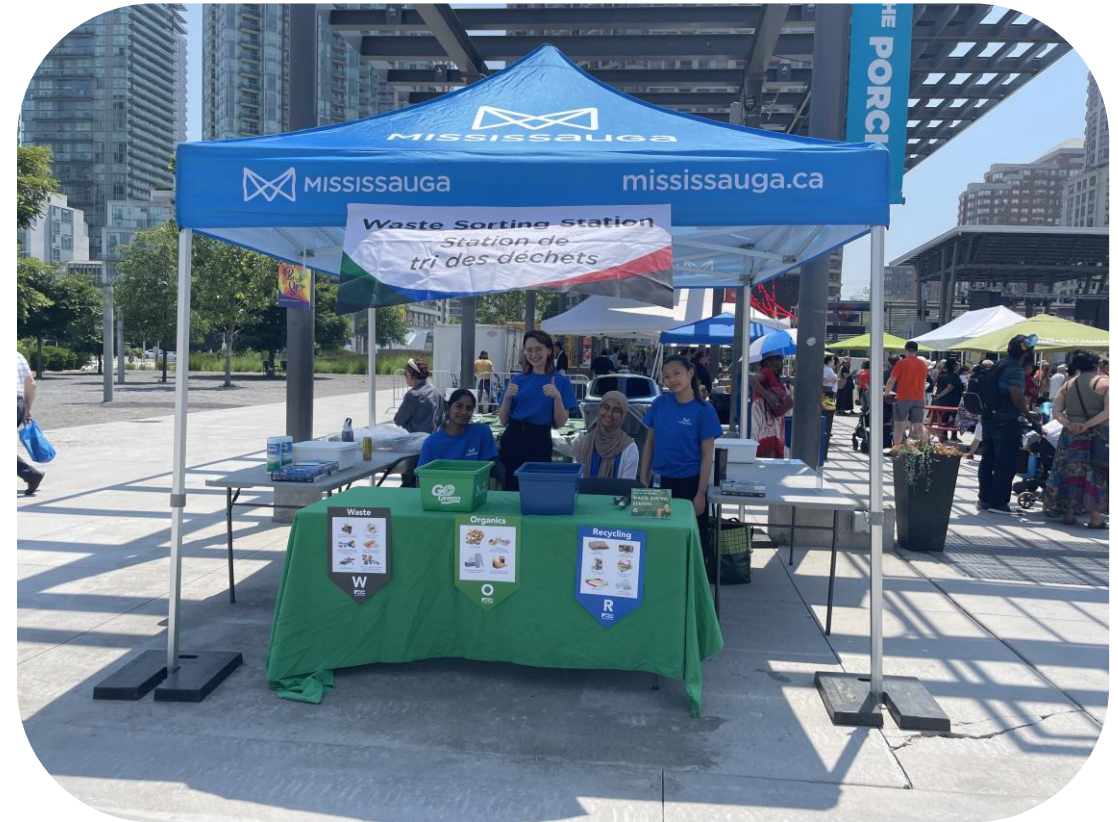
Bike Valet Service

- Bike Valet is a free bike parking service that works like a coat check for bicycles
- Leave your bike and accessories with the valet operators and get a ticket
- On your way out, return the stub and your items are returned
- Event organizers can request bike valet service with the Active Transportation team



Accomplishments

- Waste sorting stations for internal City run events
- **2023 Metrics:** 770 kg of organics and 4,740 kg of recycling diverted from Celebration Square



Surplus Assets Solutions



Disposal of Surplus City Assets Policy

Policy is intended to:

- Communicate the City's commitment to environmental stewardship, identify roles and responsibilities of staff, and
- Provide staff with:
 - options for the disposal of Surplus Assets
 - an efficient and effective streamlined disposal procedure



Surplus Assets Solution

OPTION 1: REUSE

View [list of available items](#) for internal reuse throughout the City.

OPTION 2: LEARN

See the table below for Surplus Asset Categories and how to dispose of them.

OPTION 3: DISPOSE

Add [new Surplus Item](#). Start the process of disposing of a Surplus Asset.

OPTION 4: ASK

Still have questions? Ask an Expert. [Send us an email](#).

Disposal Categories:



Books



Branded
Material



Construction
Material



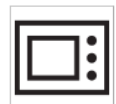
IT Equipment



Fleet



Hazardous
Material



Large
Appliance



Office Wall
Decoration



Office
Supplies



Small/Medium
Equipment



Small
Appliances



Furniture

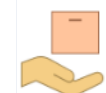
Disposal Options:



Internal Reuse



Sell



Donate



Return To Vendor



Waste



Decision Making Support

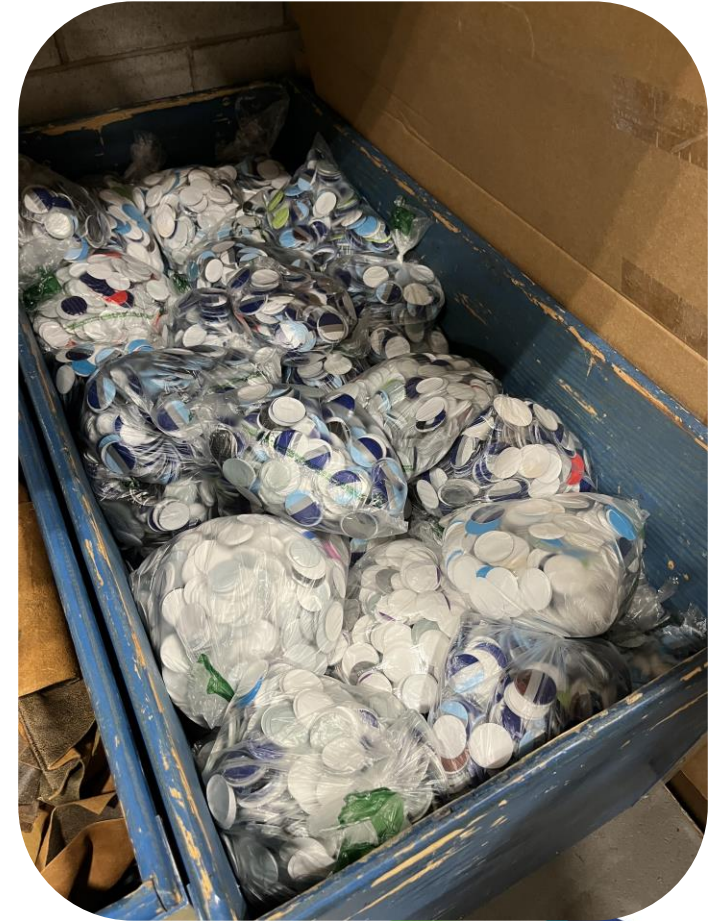
- SAS requires input from the user:
 - Contact information
 - Asset
 - Location
 - Quantity
 - Condition
 - Estimated Value
- Most appropriate options will be provided along with necessary steps
- Templates if required (ex. transfer of title, release of liability)
- Staff contacts for additional help, if needed
 - i.e. Space Planning, IT, Waste Management



Living Arts Centre



Creative Zone



Measurements & Cost Savings

- Hazel McCallion Central Library renovation project diverted more than 120,000 kilograms of materials from landfill
 - Internally-reusing and donating assets saved the library an estimated \$4,000 in disposal fees
- Living Arts Centre successfully donated more than 7,000 kilograms of items like chairs, tables, and benches
- Buying the assets new would cost the donation organizations ~\$85,000

BraeBen Golf Course

- Sold 204 banquet chairs to Bryan's Farm & Industrial Supply Ltd
- 1,530 kilograms diverted from landfill through public auction
- Sale of assets made the City \$2,000



Miscellaneous Diversion Opportunities

- Wooden skids (ongoing, various facilities, no consistent diversion)
- PPE (various facilities, donation options)
- Line painting pails (Parks Operations)
- Air compressors (one-time, grant assets)
- Piano (bulky item, required mover support)



Strategy Development

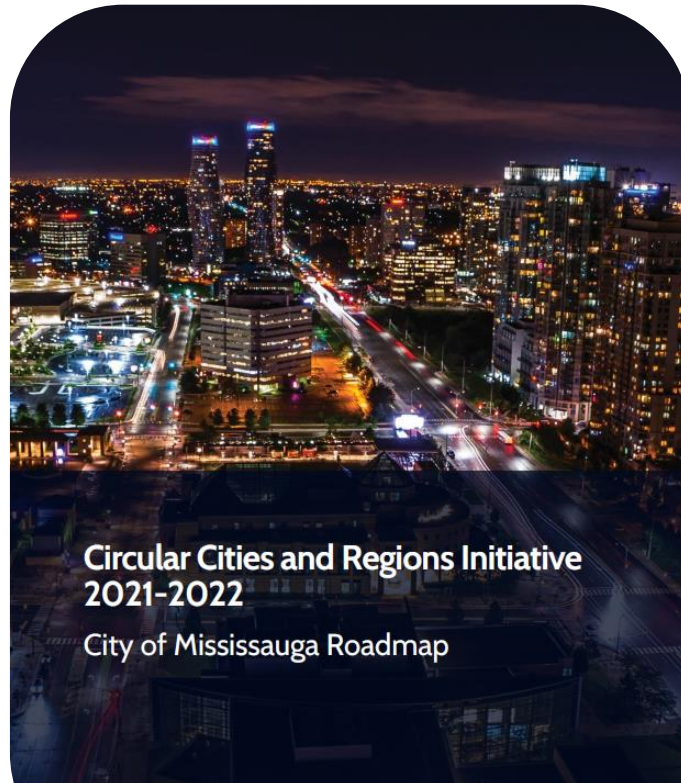


Climate Change Action Plan

- Commitment to decreasing the City's carbon footprint and preparing the community for the effects of a changing climate.
- **Action #16:** Provide Strategic Direction on the Management and Diversion of Municipal Waste and Litter
 - 16-1: Develop a corporate waste reduction strategy
 - 16-3: Explore opportunities to implement the circular economy to reduce waste



Circular Economy Roadmap

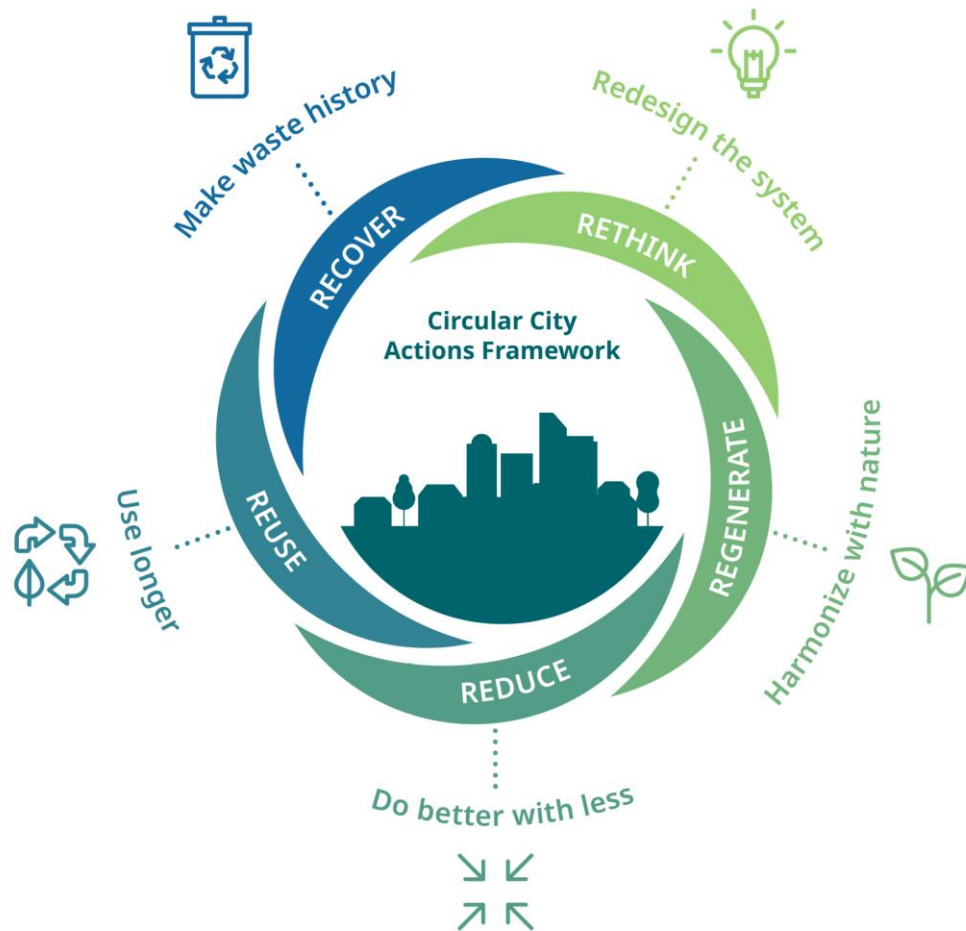


Top Priorities:

- Urban and Industrial Symbiosis
- Circular Corporate Organization



Corporate Zero Waste Strategy Refresh



Source: ICLEI Circular City Actions Framework

- 10-year anniversary of the Corporate Zero Waste Strategy
 - Approval for retirement
- Developing new Circular Economy Strategy
 - Collaborate with all City divisions
 - Leverage the City's current initiatives



Sustainable Procurement Policy



- Review the Sustainable Procurement Initiative
- Assess Sustainability Impacts & Opportunities
- Introduce Tools to support Evaluating Sustainability
- Apply Sustainability to Upcoming Procurements



Environmental Sustainability Initiatives



Spring Recycling Collection Drive



Earth Day Clothing and Electronics Collection Drive April 14th - 29th with Partners in Project Green

Year	Textiles (kg)	Electronics (kg)	Total Amount (kg)
2023	4,682	5,103	9,785
2022	6,748	6,311	13,059
2019	2,152	4,590	6,742
2018	2,579	4,877	7,456
2017	1,627	919	2,876
2016	1,100	3,200	4,300



Repair Hub



**Repair
Hub+**

Don't throw it away!

Learn how to
repair your items

Malton Library
Sat Apr 20, 2024
11am-4pm

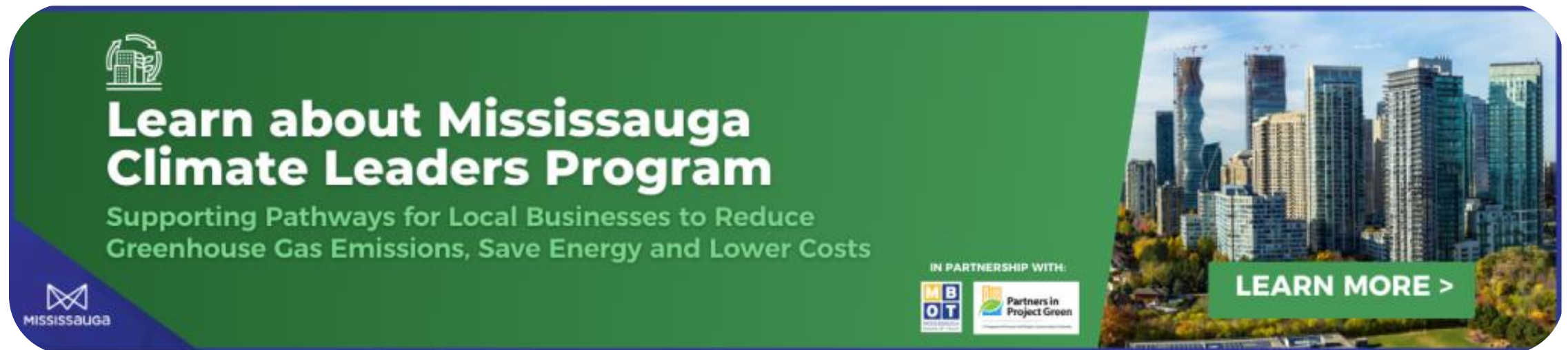
Register at:
mississauga.ca/repairhub


 MISSISSAUGA





Economic Development Office Collab

Business education hub with climate change, circular economy, and waste sorting station training for community groups and organizations in 2024 at IDEA





Learn about Mississauga Climate Leaders Program
Supporting Pathways for Local Businesses to Reduce Greenhouse Gas Emissions, Save Energy and Lower Costs

MISSISSAUGA

IN PARTNERSHIP WITH:
 

[LEARN MORE >](#)



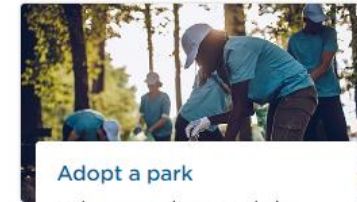
Litter Campaign

- Reduce litter in parks, trails, roadways and open spaces
- Targeted themes (e.g. volunteer litter clean-ups, waste reduction, wildlife preservation, dog waste)
- Ownyourlitter.ca



Organize a park clean-up

Volunteer with family or friends to pick up litter in a park.



Adopt a park

Make a commitment to help clean up litter in your community by adopting a park.



Report litter or dumping

Tell the City about garbage and debris left on City or private property.



Curb your food waste

Learn ways to reduce the amount of food waste at home.



Start a garden at home

From backyard to balcony, learn how to grow your own garden at home to help minimize waste and plastic packaging from store-bought food.



Purchase garbage bag tags

Eligible residents of Peel can purchase garbage bag tags for excess garbage or drop off waste at Peel's Community Recycling Centres for a disposal fee.



Sort your waste correctly

From batteries to yard waste, learn how to properly sort and dispose of your waste.



Feed trash bins, not wildlife

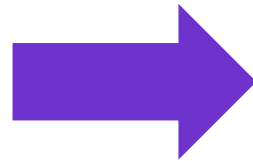
Follow the rules and respect our City's parks and trails, along with wildlife in their natural habitat.



Scoop your dog poop

Follow the proper steps to bag and dispose of your dog's waste.

Litter Campaign Evolution



Library MakerSpace



MAKERFEST!
Makerspace Celebration

Drop-in for an open-house and learn about what's available. See demonstrations of 3D Printing, Sewing, Green Screen Filming, a Robot Petting Zoo and more.

Meadowvale Library
Saturday, May 5, 11 am-3 pm

Courtneypark Library
Saturday, May 12, 11 am-3 pm

Burnhamthorpe Library
Saturday, May 26, 10 am-2 pm

HANDICRAFT, ROBOTICS, BUILDING, DIGITAL FILMMAKING,
3D PRINTING, CODING

MAKER MISSISSAUGA

mississaugalibrary.ca/makermississauga #MakerMLS

The Library MISSISSAUGA

- Offers a variety of free programs through Maker Mississauga to help everyone explore their STEAM skills, including Lego Club, tween and teen robotics clubs, Knit & Crochet Circle and more
- Available at:
 - Burnhamthorpe Library
 - Courtneypark Library
 - Malton Library
 - Meadowvale Library
 - Hazel McCallion Central Library



Questions?

