

# Long-term Waste Management Plan 2021-2040



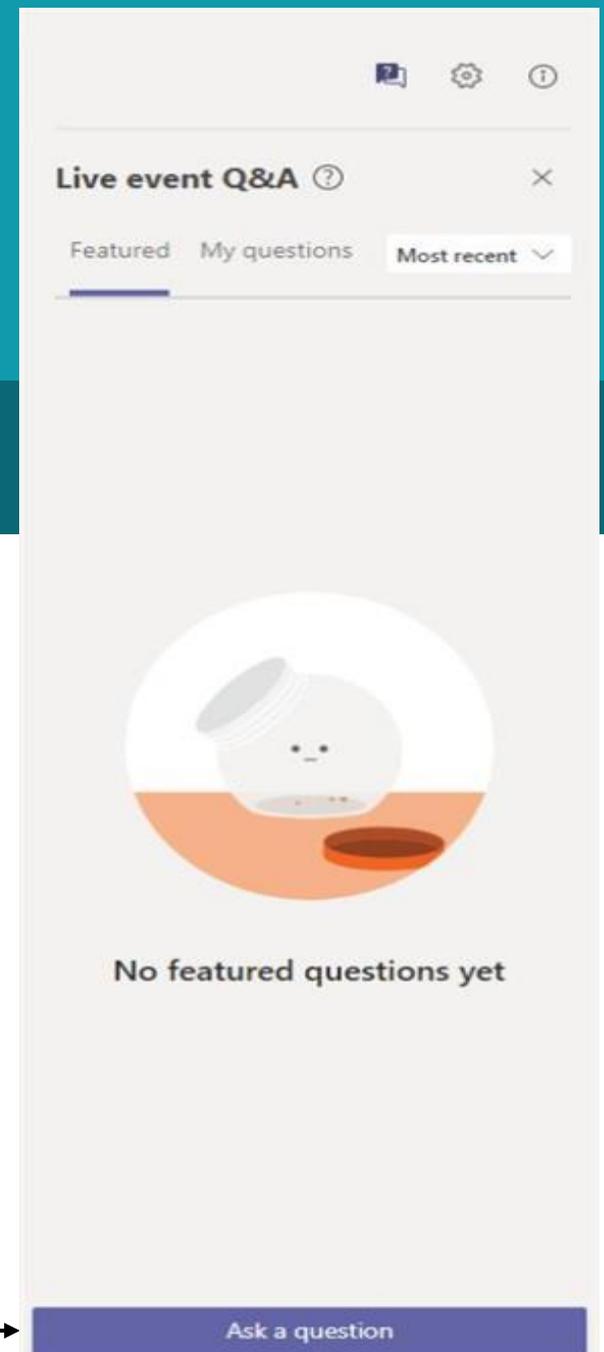
# Welcome!

The presentation will begin shortly.

To help this meeting run as smoothly as possible, please consider the following tips:

- Attendees are muted
- No chat function for this meeting
- If you have a question type it in the **Q&A box** for the moderator to address
- Use the thumbs up icon next to questions from others to indicate you have a similar question
- This meeting will be recorded

Click here to enter a question



# Welcome to the virtual town hall for the Durham Long-term Waste Management Plan 2021 - 2040



## Durham Region

### Public Engagement So Far

Phase one consultation on guiding principles, vision statement and objectives included:

- Presentation to Regional Advisory Committees and Local Area Municipality staff
- Public online open house, survey and virtual town hall for questions and answers

This Virtual Town Hall is part of Phase two consultation

### Plan for this evening

- Short presentation to review draft targets and actions
- Question and Answer Session

This presentation will be posted on the Long-Term Waste Management Plan website at [www.durham.ca/WastePlan](http://www.durham.ca/WastePlan)

[Drop us a line throughout the project at WastePlan@durham.ca](mailto:WastePlan@durham.ca)

# Guiding Principles

Council approved Guiding Principles in January 2021



1. Emphasize *rethink*, reduce and reuse principles as the first steps in reducing waste generation.



2. Deliver cost effective waste management services to a rapidly growing and diverse population.



3. Work with producers and importers of designated products and packaging to implement “Extended Producer Responsibility” and adjust Region waste programs as required.



4. Apply innovative approaches to Region waste streams to manage them as resources in a circular economy.



5. Demonstrate leadership in sustainability to address the climate crisis by reducing greenhouse gas emissions from waste management activities.

# Vision



Together, with our residents, we will reduce the amount of waste we create and manage the generated waste as a resource. We will build an innovative system, balancing financial needs and environmental sustainability.

# Objectives



Engage with residents to build an understanding and awareness of the 5Rs (Rethink, Reduce, Reuse, Recycle, Recover) and the Region's waste management programs and services.



Reduce the quantity of waste we create.



Increase diversion of waste from disposal and support the Circular Economy.



Support the Region's greenhouse gas reduction and climate change mitigation efforts.



Protect or improve water, land, and air quality in Durham Region.

# Objective 1 - Engage with residents to build an understanding and awareness of the 5Rs and the Region's waste management programs and services



**Target 1A: Increase public engagement on the 5Rs through partnerships, increased accessibility, and different media.**



Year over year increase (from 2018 or action start date)



Actions throughout life of Waste Plan		Proposed Measurement
1A1	<b>Work with schools</b> to provide educational content and increase rethink and reduce activities.	# of classrooms using Region content
1A2	Transition to a central access point for residents to obtain waste management information (e.g., myDurham 311).	# of contacts regarding waste management handled by 311
1A3	<b>Increase Waste app subscribers.</b>	# of subscribers
1A4	Add a dedicated section to the Region's webpage on Reduction and Reuse.	# of visits to webpage
1A5	Investigate the feasibility of including <b>locations of donation centres</b> on the Waste app.	Evaluation of technical feasibility of enhancements
1A6	Develop digital and/or in-person <b>educational opportunities</b> such as online meetings, how-to videos, tours of waste management facilities, potentially through collaborations with community groups.	# of views, # of meetings and/or tours, # of people attending meetings and/or tours
1A7	Identify <b>additional languages for publications</b> , P&E materials and outreach events such as multi-cultural groups and clubs.	Increased number of languages available

## Objective 2 - Reduce the quantity of waste we create

 **Target 2A: Support residents in making behavioural changes to reduce food waste.**



Reduce quantities of food waste.

 **Short-term Action**

2A1: Continue with the Region's "**Buy it, Eat it**" food waste reduction campaign.

 **Target 2B: Support residents in making behavioural changes to reduce the amount of waste generated.**



Reduce quantities of materials generated such as durable goods, textiles and single-use plastics.

 **Short-term Actions**

2B1: **Measure annual generation rates of garbage** and organics to track progress in reducing waste.

2B2: Develop a **monitoring program** to measure waste collected and waste composition on a regular basis.

**Mid-term Actions**

2B3: **Evaluate partnerships** with local charities on common messaging, sharing libraries and other circular economy opportunities.

2B4: Partner with local area municipalities on **common messaging** and approach to textile diversion, single use items, etc.

## Objective 3 - Increase diversion of waste from disposal and support the Circular Economy.



**Target 3A: Increase diversion of organics from disposal.**



Increase organics diversion.



### **Short-term Actions**

3A1: Develop the **Mixed Waste Pre-sort and Anaerobic Digestion Facility** to divert organics from garbage.

3A2: Launch an **enhanced Green Bin program** for single-family residences.

3A3: Encourage backyard composting.

3A4: **Expand collection services** to more Regional facilities such as long-term care homes to divert more organics.

### **Mid-term Actions**

3A5: Expand collection services to **more multi-residential buildings** to divert more material.



**Target 3B: Revise Waste Management By-law 46-2011 to reflect changes to Regional collection and processing programs and services.**



Revise By-law by 2026.



### **Short-term Actions**

3B1: **Revise By-law** to reflect new Extended Producer Responsibility (EPR) programs for recycling, electronics, household hazardous waste, batteries, etc.

3B2: Revise By-law to include a new section for the Mixed Waste Pre-sort and Anaerobic Digestion Facility and its operation/use.

3B3: Review options to **collect waste in denser developments** (e.g., smaller trucks, different collection containers, collection on one side of street, central collection areas etc.).

## Objective 3 (continued) - Increase diversion of waste from disposal and support the Circular Economy.



**Target 3C: Develop a transition plan that supports EPR programs.**



Successful transition to EPR in 2024.



### **Short-term Actions**

3C1: **Work with producers** to understand how programs will be rolled out and the impact on the Region.

3C2: **Develop educational campaigns** to inform residents of changes to programs.

3C3: Transition the program(s) to producers and make any required modifications to areas remaining under Region's responsibilities.

3C4: Explore opportunities to reuse or recycle household hazardous waste not covered under the regulations (e.g., refillable propane cylinders, or fertilizer).

3C5: Assess **options for the Region's recycling facility** and equipment.

3C6: Evaluate if changes are required at Waste Management Facilities to adapt to EPR regulations.

3C7: Evaluate if the Region will continue to provide recycling collection service to ineligible sources (e.g., small businesses in BIAs and other small businesses currently serviced in the curbside collection program).

## Objective 3 (continued) - Increase diversion of waste from disposal and support the Circular Economy.



**Target 3D: Advocate for the expansion of existing EPR programs and for additional EPR programs to manage more materials.**



Number of advocacy efforts (e.g., letters, conversations, participation in related webinars/feedback sessions) towards new or expanded EPR programs for materials such as compostable packaging, mattresses, carpets, furniture, appliances, textiles, hard plastics, fertilizers, appliances, etc.



### **Short-term Actions**

3D1: Continue to **participate in the solid waste management committees** of municipal advocacy organizations.

3D2: Continue to **participate in consultation opportunities** for proposed Federal and Provincial waste management changes.

### **Mid to Long-term Actions**

3D3: **Advocate** to the Federal and Provincial governments **for new EPR programs** to divert more materials from disposal.

3D4: Advocate for existing programs to be expanded (e.g., recycling, hazardous waste, electronics).

3D5: **Provide comments** on any proposed EPR programs to ensure Durham Region's considerations are included in the development of regulations.

## Objective 4 - Support the Region's greenhouse gas (GHG) reduction and climate change mitigation efforts.



**Target 4A: Develop initiatives to offset or reduce GHG emissions from solid waste that contribute to Corporate GHG emissions.**



Measurement: Annual actions to implement initiatives to reduce GHG emissions to contribute to the corporate GHG emissions reduction target of 40 per cent below 2019 levels by 2030 (and 100 per cent below 2019 levels by 2045).



### **Short-term Actions**

4A1: Explore opportunities to **convert collection vehicles to use alternative fuels**.

4A2: Identify opportunities to convert biogas to Renewable Natural Gas at Region-owned facilities.

4A3: Identify additional methodologies to **determine GHG emission reductions and avoidance** associated with waste reduction, reuse, recycling and recovery that are not currently reflected in the Corporate GHG inventory.

4A4: Undertake additional analyses to review how to better recover energy resources from waste operations.

### **Mid to Long-term Actions**

4A5: **Develop a carbon emissions management plan** in partnership with the Region's Sustainability group.

4A6: Work with other Divisions (e.g., Purchasing, Facilities, Legal, Sustainability Office) to leverage the Region's buying power to develop in-house Circular Economy Initiatives.

4A7: Explore options for **wind/solar installations** at Waste Management Facilities (WMF).

4A8: Explore opportunities to convert some or all fleet vehicles to alternative fuels.

4A9: Assess operational practices (e.g., compaction, transfer) at WMFs that would reduce emissions from transportation.

## Objective 5: Protect or improve water, land and air quality in Durham Region.



**Target 5A: Optimize the operation and utilization of Waste Management Facilities (WMFs).**



Annual actions to optimize operations at WMFs.



### Short-term Actions

5A1: Explore options to **optimize the Oshawa WMF** (e.g., traffic flow, new indoor/outdoor facility).

5A2: Investigate options to **improve diversion at WMFs** (e.g., fertilizer reuse, bulky plastics recycling, separation of renovation/construction materials).

### Mid to Long-term Actions

5A3: Explore options to optimize Brock and Scugog WMFs (similar to Oshawa WMF).

5A4: Evaluate business case to develop a **new WMF** or smaller drop-off depots with consideration to under-serviced areas.



**Target 5B: Increase accessibility of waste management programs and services.**



Changes to operating hours and physical accessibility of WMFs.



### Short-term Actions

5B1: Investigate **extending the hours** of operation (e.g., open later in the evening, different/more days, seasonal hours) to make access to the WMFs more convenient for users.

5B2: **Assess accessibility** of WMFs (e.g., signage, access to containers, stairs, ramps etc.) to ensure they are physically accessible.

### Mid-term Actions

5B3: Explore options for **assisted waste collection** to help residents manage set out of materials.

## Objective 5: Protect or improve water, land and air quality in Durham Region.



**Target 5C: Explore options to reduce environmental impacts of closed landfills and potential for future community use.**



Annual progress towards implementing alternative landfill cover systems at closed landfills and conversion for community use.



### **Short-term Actions**

5C1: **Maintain current landfill monitoring and ongoing care program** while evaluating additional options to minimize landfill GHG generation and other environmental impacts.

5C2: Evaluate outcome of pilot project at **Oshawa Landfill for an alternative landfill cover** system to reduce methane emissions.

### **Mid to Long-term Actions**

5C3: Based on the outcome of the Oshawa Landfill pilot project, evaluate potential to implement the **alternative cover** system at other Region-owned closed landfills.

5C4: Explore options to **install solar covers** at closed landfills.

5C5: Evaluate potential to utilize closed landfills for community use.

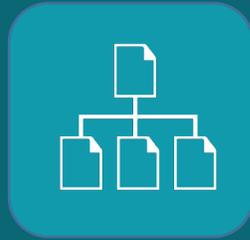
# New Waste Plan: Next Steps

Thank you for participating in the Town Hall



**Fall 2021**

We'll summarize feedback from the online consultation



**Fall 2021**

We'll be considering the feedback and preparing the final Waste Plan and 5 Year Action Plan



**Early 2022**

We'll present to Council for approval and then start implementing the Actions

Questions?

**View the Open House and take the Survey until October 25:**

[DurhamWasteOpenHouse.ca](https://DurhamWasteOpenHouse.ca)

**Reach us at:**

[WastePlan@Durham.ca](mailto:WastePlan@Durham.ca)

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