

The background of the slide is a close-up photograph of various food scraps, including orange peels, banana peels, vegetable scraps, and eggshells, scattered on a dark, rich layer of soil. A semi-transparent teal box is overlaid on the left side of the image, containing the title and corporation name.

Making Waste Matter: Integrated Waste Management Strategy Update 2025 to 2029

Corporation of the City of Kawartha Lakes

May 2025

IWMS Update

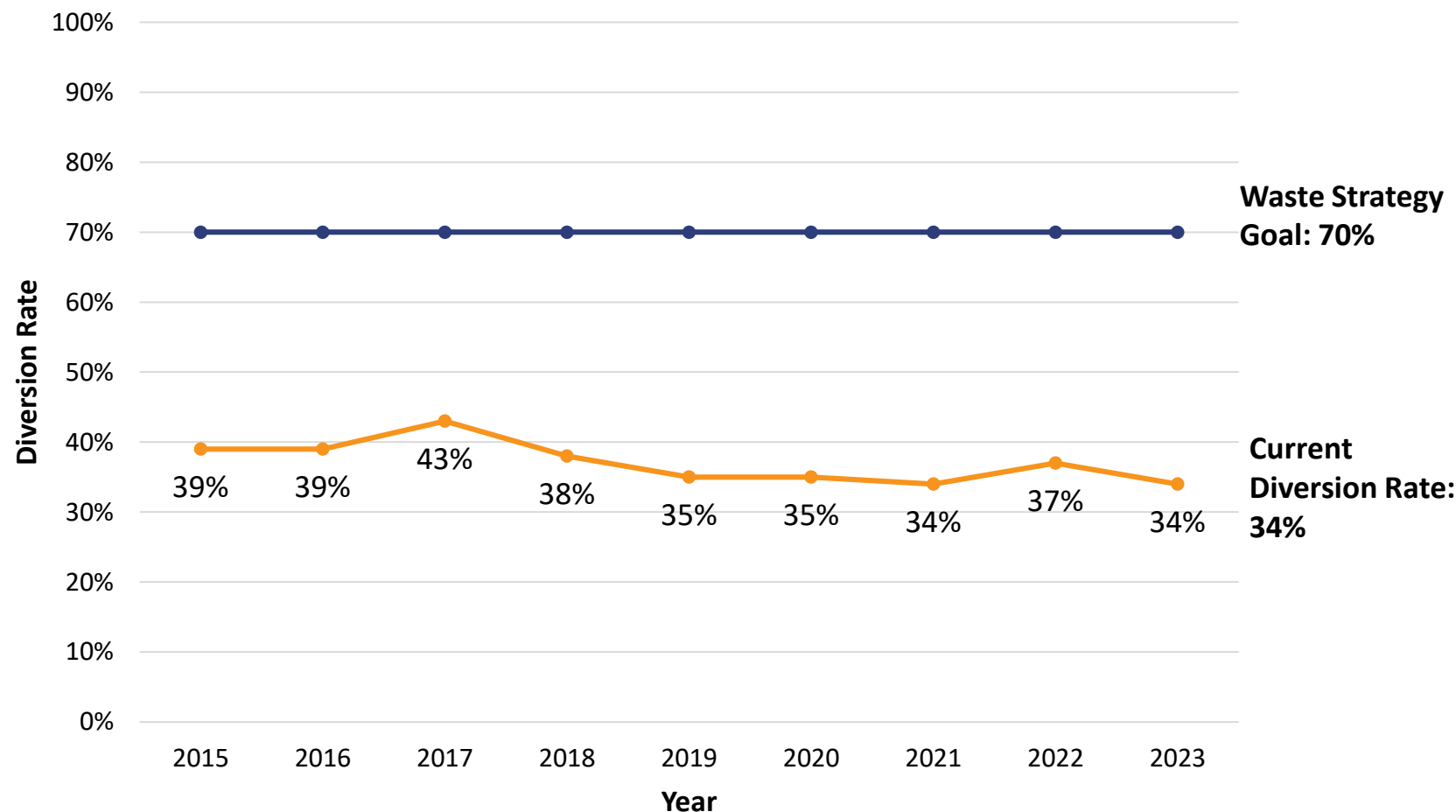
Dillon Consulting Limited (Dillon) was retained by the City of Kawartha Lakes (City) to update their IWMS for 2025 to 2029.



Diversion Rates

- With the Blue Box Transition to the new Extended Producer Responsibility (EPR) framework, there is no longer a standard reporting method for Ontario municipalities.
- As a result, new performance metrics have been developed in this IWMS Update.

Historical Diversion Rates (2015 to 2023)



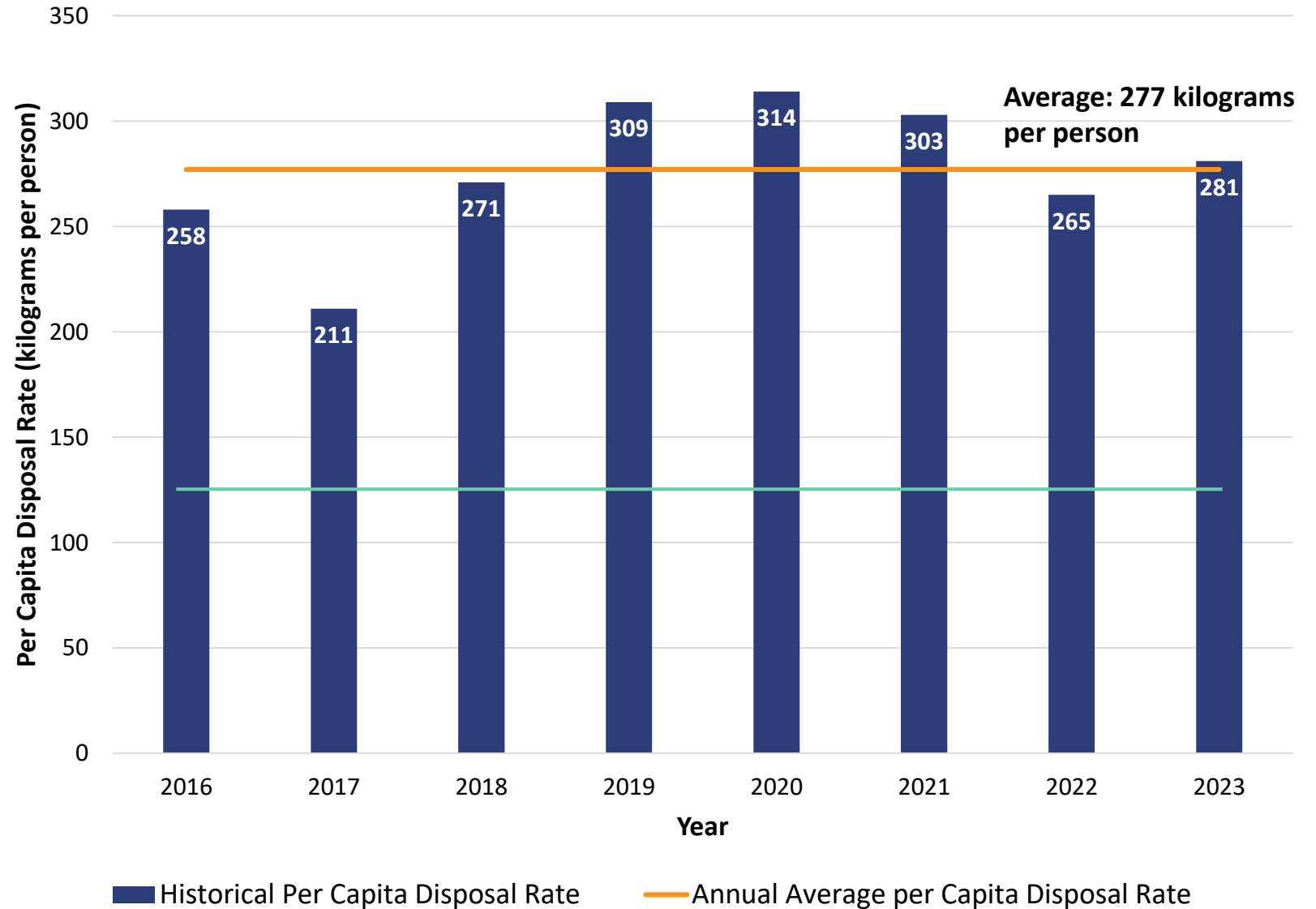
A **waste diversion rate** is the quantity of waste diverted away from the landfill through recycling and reuse programs. They can be used to estimate the performance of a waste management system.

Residential Waste Disposed Per Capita

- A per capita disposal rate is a measure of the total quantity of waste landfilled by the number of residents in a municipality.
- On average, Kawartha Lakes' residential disposal rate was 277 kilograms per capita.

70% residential waste diversion rate =
130 kg disposed per capita annually

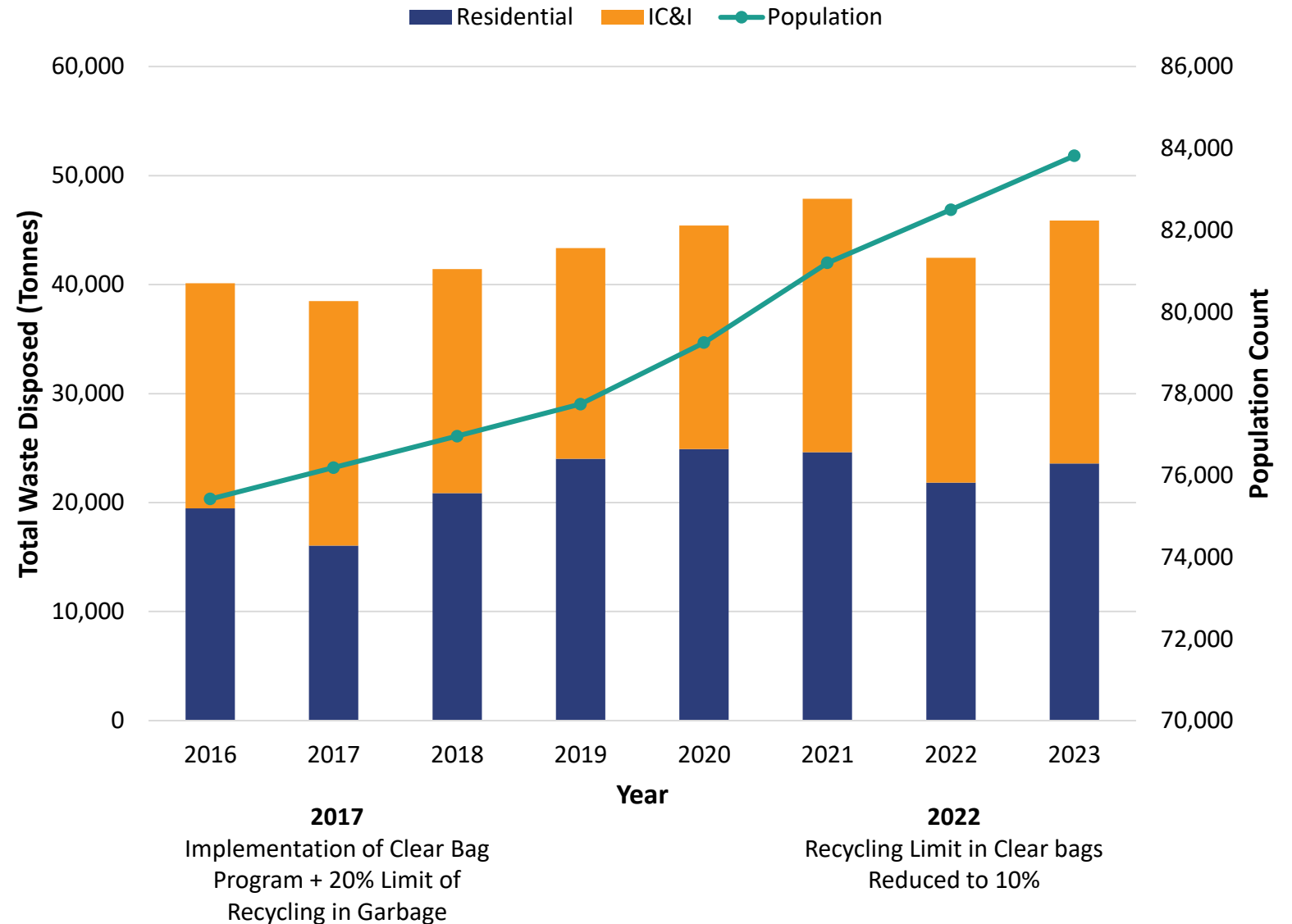
Residential Per Capita Disposal Rates (2016 to 2023)



Total Waste Disposed

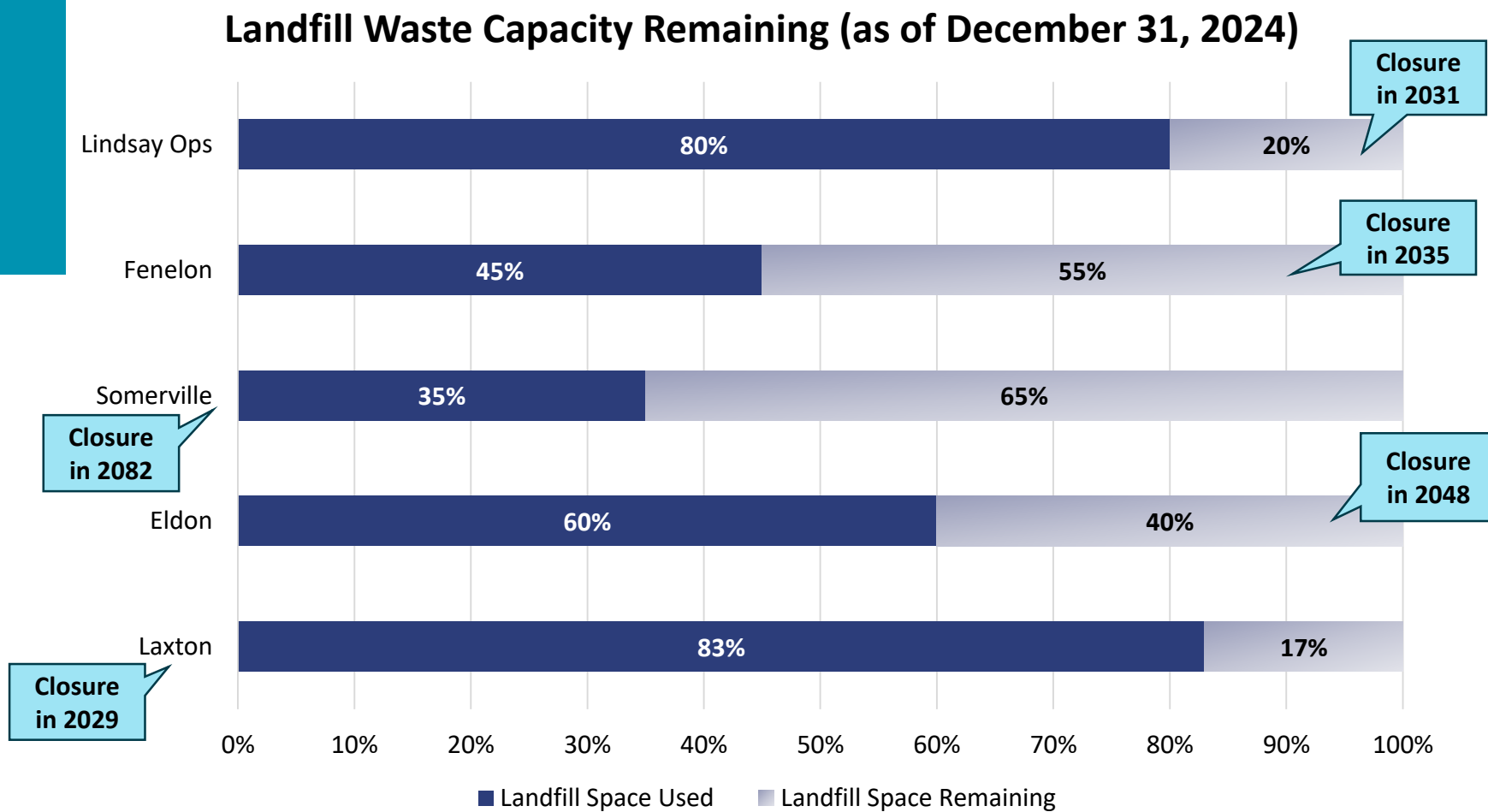
- The Industrial, Commercial and Institutional (IC&I) sector disposes approximately 50% of the total waste landfilled in the City.

Total Waste Disposed (2016 to 2023)



Background

- By 2050, the City's Growth Management Strategy estimates the population to grow to 130,000 people.
- This translates to approximately 91,000 tonnes of waste for the City to manage in 2050.



As the City continues to grow, reducing waste disposed at the landfills and improving waste diversion will help **minimize environmental impacts and delay the need to construct new or expand existing landfills.**

IWMS Development – Public Engagement

- The public engagement process was used to identify key themes and priorities identified by residents. The process involved the following:
 - Online Survey - **Received 800+ Responses**;
 - Two Open Houses – **Engaged with 40 residents**; and
 - Updates and comments on Jump In Website.

Here is what we heard:

This feedback was used to develop the proposed list of actions to include in the Waste Management Strategy Update.

Strong interest in organics program



Support for bi-weekly garbage collection

More frequent leaf and yard waste collection



Expansion of diversion programs at other City-owned waste sites

More recycling bins in public spaces



More communication and education for recycling/reuse programs

More opportunities for repairing and reusing materials



Options for managing organics in rural communities

Strategy Initiatives (2025 to 2029)

- Considered feedback from City Waste Management staff, the Waste Management Advisory Committee and the public.
- **13 strategic actions** were developed for implementation during the 2025 to 2029 Strategy Period.
- Strategies fall under one of four categories:



↓ Reduce



↻ Reuse



♻️ Recycle



💡 Innovate

Reduce

Corporate Waste Reduction Initiatives

- Build on Council's endorsement of the 2020 to 2024 IWMS to **improve internal reduction, diversion and management of waste.**
- Examples: materials managed by City departments that can be diverted for use in other City applications, finding reuse or sharing solutions for infrequently used items.



↓ Reduce

Improve Access to Food and Organic Waste Recycling in Rural Communities

- The organics waste collection program was implemented in urban areas in January 2025.
- The City promotes backyard composting to all residents.
- There is strong interest in diverting organics from disposal amongst the community
- The City will plan, implement and monitor a **pilot program for in-home composting units for rural residents.**
- The City will also assess whether the curbside organics program should be expanded to rural areas.

Reuse

Repair and Sharing Programs

- City residents are eager to reduce and reuse more of their waste in places like repair hubs or sharing and reuse.
- This action looks to **support existing community reuse initiatives in accessible locations.**
- Example: Partner with local charities or libraries to provide support or host potential reuse initiatives, promote existing reuse and repair initiatives within the community on their social media platforms.



Reuse

Recycle

Leaf and Yard Waste Program

- A common theme that emerged through consultation was a desire to improve the L&YW program.
- Different options for L&YW collection were modelled.
- This option will bring in a **monthly urban L&YW collection and call-in L&YW collection services for rural areas.**

Organic Waste Program Monitoring

- Track performance of the new urban organic waste collection program with **waste audits and audit metrics** (e.g., participation rates, capture rates, landfill space saved, etc.)
- Based on data collected, the City would **investigate ways to improve diversion of organics, such as bi-weekly garbage collection.**



Recycle

Expand Household Hazardous Waste Collection

- If landfilled, household hazardous waste (HHW) poses significant environmental risk.
- Looked at ways to increase accessibility and convenience to properly recycle or dispose of HHW.
- This option will **explore opportunities to expand HHW collection** in collaboration with producer.
- Example: mobile HHW depot, additional permanent HHW depot(s) and/or increased education on existing HHW collection programs.

Recycle

Public Space Recycling Strategy

- 30% of public space bins only have options for garbage disposal with no opportunities to recycle.
- Public space bins that do have recycling opportunities have notably high contamination rates.
- This initiative involves working with the Parks and Recreation Division to **develop a Public Space Recycling Strategy**.

Agricultural Waste Diversion

- Agricultural waste can refer to silage film tarps, bale wrap, twine, and bunker covers which gets landfilled.
- This initiative involves conducting a **three-year pilot program to manage agricultural waste**.
- This would involve understanding existing issues, potential waste quantities and identifying opportunities to manage agricultural waste from local farmers.

Boat Wrap Diversion

- There's a large influx of seasonal residents and visitors in the summer months. This results in lots of boat and bale wrap which is currently landfilled.
- This initiative will involve conducting a **three-year seasonal pilot program to recycle boat wrap**.
- This will involve understanding existing issues, potential waste quantities, and identifying opportunities.



Recycle

Recycle

Develop Targeted Promotion and Education (P&E) Campaigns

- Performance and audit data will be reviewed regularly to determine opportunities for improving communications.
- The City will **develop targeted P&E campaigns** based on the review of data and trends as well as the introduction of new programs and policies.

Expand Bulky Plastic Recycling Program

- The City now offers a permanent recycling program for bulky plastics at the Lindsay Ops landfill site.
- This initiative would involve **expanding the bulky plastic recycling collection programs to other City-owned landfill sites** for increased convenience and better accessibility.

Expand Construction & Demolition (C&D) Collection at Landfills

- C&D waste is bulky, takes up a lot of space in the City's landfills and is primarily generated by the IC&I sector.
- The C&D recycling program at Lindsay Ops diverts concrete, rubble, wood, shingles, and drywall.
- This initiative would **expand the C&D diversion program** to other landfill sites and identify opportunities for other C&D wastes (e.g., aggregates and glass) to be diverted as feasible.



Recycle

Landfill Optimization

- Ontario is running out of landfill disposal capacity. The City is fortunate to have five active landfill sites and the IWMS Update looked at ways to operationally preserve landfill space.
- Existing landfill equipment, operations, and infrastructure was reviewed. It is recommended that the **City assess the feasibility of using a tarp as alternative daily cover, implementing GPS to measure and optimize compaction rates, and investing in a shredder** at the landfill sites.



Innovate

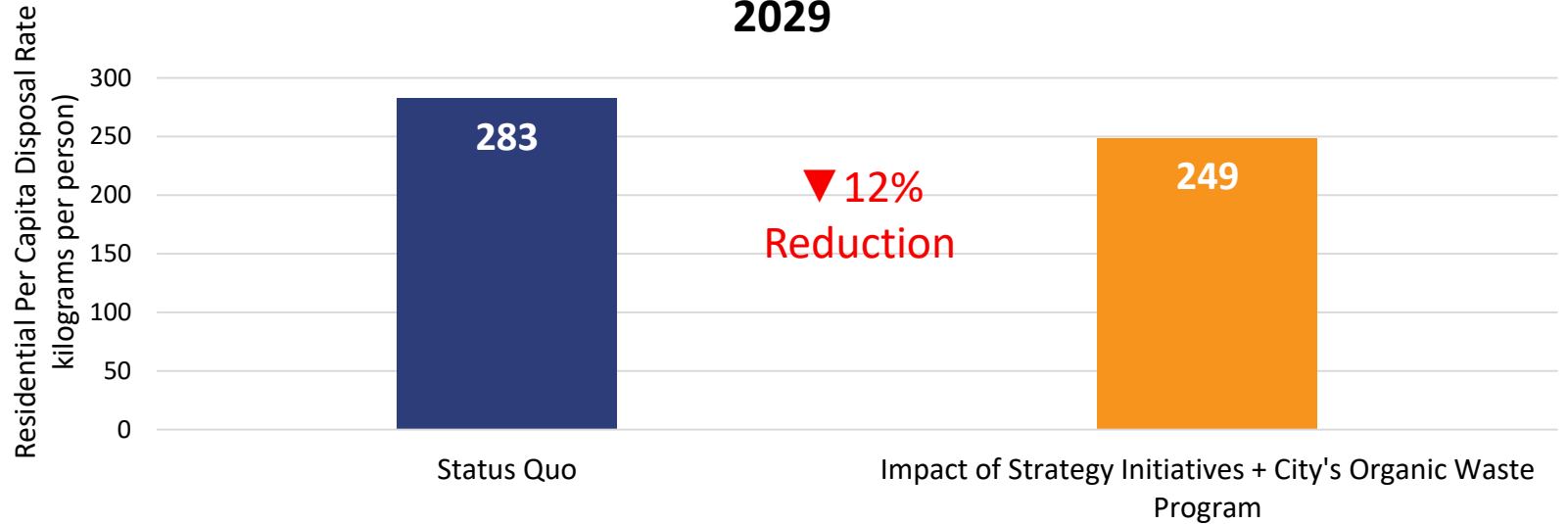
Implementation Plan

| Initiative | Strategy Period | | | | |
|---|-----------------|------|------|------|------|
| | 2025 | 2026 | 2027 | 2028 | 2029 |
| Corporate Waste Reduction Initiatives | IP | IP | IP | IP | IP |
| Improve Access to Food and Organic Waste Recycling in Rural Communities | PP | IP | IP | IP | IP |
| Repair and Sharing Programs | PP | IP | IP | IP | IP |
| Leaf and Yard Waste Program | PP | PP | IP | - | - |
| Organic Waste Program Monitoring | PP | PP | IP | - | - |
| Expand Household Hazardous Waste Collection | - | PP | PP | PP | IP |
| Public Space Recycling Strategy | - | PP | PP | IP | IP |
| Agricultural Waste Diversion | PP | PP | IP | IP | IP |
| Boat Wrap Diversion | PP | PP | IP | IP | IP |
| Expand Construction and Demolition Collection at Landfills | - | PP | PP | IP | IP |
| Expand Bulky Plastic Recycling Program | - | PP | PP | IP | IP |
| Develop Targeted Promotion and Education Campaigns | IP | IP | IP | IP | IP |
| Landfill Optimization | PP | PP | PP | PP | IP |

Impact of Strategy Initiatives

- The goal of the original Making Waste Matter Strategy was a 70% diversion rate by 2048.
- To achieve this, the City is looking at a **53% reduction in the annual residential disposal rate by 2048.**

Estimated Reduction in Residential Per Capita Disposal Rate in 2029



Estimated Reduction in Total Waste Disposed in 2029

