

Why Waste?

Background and Status on: 60% Waste Diversion Action Plan

**Waste Management Working Group
December 18, 2019**



Why Waste? **Council Direction(s)**

On October 30, 2017 City Council passed the following resolution:


"The W12A Landfill expansion be sized assuming the residential waste diversion rate is 60% by 2022 noting this does not prevent increasing London's residential waste diversion rate above 60% between 2022 and 2050."

In October 2018, Council passed the following resolution:

"...the 60% Waste Diversion Action Plan (Action Plan) containing programs and initiatives to be phased in between 2019 and 2022 to achieve 60% waste diversion ... BE APPROVED..."

In July 2019, Minister of the Environment, Conservation & Parks:

"I am satisfied that an environmental assessment prepared in accordance with the amended terms of reference will be consistent with the purpose of the EA Act"



Why Waste? **Provincial Direction(s)**




To mark our progress and keep on track, we have set three interim goals:

- 30% diversion rate by 2020
- 50% diversion rate by 2030
- 80% diversion rate by 2050

Many Targets ("must")

- 70% reduction/recovery of food and organic waste from single family homes by 2025
- 50% reduction/recovery of food and organic waste generated at the multi-residential building by 2025



Why Waste? **How much waste and resources in London?**





Between 425,000 and 450,000 tonnes per year



Why Waste?

- 21 actions
- split into 6 categories
- Operating \$6.5 million
- Capital \$16 million

60% Waste Diversion Action Plan

What's in the garbage?

Single Family Homes Apartments

Waste Management Working Group: July 13, 2018
 Civic Works Committee: July 17, 2018
 Municipal Council: July 24, 2018
 Community Engagement: July 25 - September 27, 2018

Why Waste? **MYB 2020 -2023**

Operating Budget – initially focused on waste reduction including food waste avoidance

Business Case Tax Levy Impact (\$000's)	2020	2021	2022	2023	2020-2023 TOTAL
Annual Net Requested Tax Levy	\$700	\$3,900	\$6,500	\$6,500	\$17,600
Annual Net Incremental Tax Levy	\$700	\$3,200	\$2,600	\$0	\$6,500
Estimated Tax Levy Impact %	0.12%	0.51%	0.40%	0.00%	0.26% (Average)
Estimated Tax Payer Impact (Dollars) ¹	\$3.28	\$18.27	\$30.46	\$30.46	\$20.62 (Average)

note 1: Calculated based on the average assessed value of \$241,000 for a residential property (excludes education tax portion and impacts of future tax policy).

Capital Budget – funded through Federal Gas Tax

	Life-to-Date	2020-2023 TOTAL
Capital (Project SW6050)	\$500	\$16,400

Why Waste? **Overview of Updates**

2019 had several adjustments

- Additional work on a number of items:
 - London Waste to Resources Innovation Centre
 - Provincial Blue Box mediation
 - Provincial organics framework & policies
 - London's Hefty EnergyBag Pilot Project
 - MYB budget items

Why Waste? **Overview of Updates**

2019 had several adjustments

- Work that has been delayed:
 - Diverting ceramics, some furniture through the depots
 - Coordinated textile awareness program
 - Detailed implementation plans

Why Waste? How much Avoidable Food Waste is there?

Diversion/Recovery Opportunities	% of Waste by weight
Avoidable food waste	23%
Unavoidable food waste	12%
Other Organics	15%
Pet waste	10%
Organics	60%

Why Waste? Lost Value


Local Research (Western University), London Pilot Projects . . . and experience in Canada, USA and Europe



• **\$450 to \$600 per household (\$80 to \$100 million/year) in avoidable food**



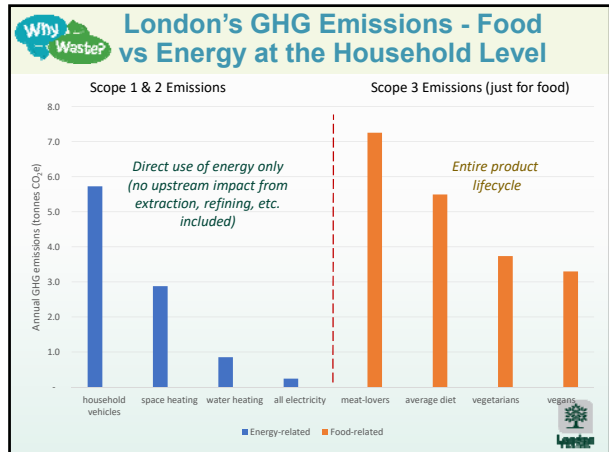
Why Waste? Food & Climate Change The Global Picture



Food systems emissions contribute **19-29% OF TOTAL GHG EMISSIONS.**

Industry & manufacturing (businesses, factories) contribute about **21% OF TOTAL GHG EMISSIONS**


Sources: CGIAR (formerly the Consultative Group for International Agricultural Research) IPCC, 2014



Why Waste? **Green Bin Implementation Decisions**

What goes in the Green Bin?

1	2	3	4	5
Food Scraps	Paper Products	Animal Waste	Personal Hygiene Products	Other



Why Waste? **Green Bin Implementation Decisions**



- Type of carts
- Single or co-collection vehicles
- Level of automation



Why Waste? **Green Bin Implementation Decisions**

Choices: Aerobic Composting or Anaerobic Digestion (Biogas)