

# WELCOME

to the Fourth Series of Open Houses  
Resource Recovery Information



[getinvolved.london.ca/whywasteresource](http://getinvolved.london.ca/whywasteresource)



### Organics Management

- Food waste reduction initiatives
- Home composting
- Community composting
- City wide organics program



### Recyclables

- Carpet, mattresses and textiles
- Electronics, scrap metal and small metal appliances
- Wooden furniture
- Bulky plastics



### Waste Reduction & Reuse Programs (examples)

- Waste Reduction Programs: lending libraries, repair workshops
- Community outreach programs: environment days
- Policies and by-laws: landfill bans, reduced garbage limit, pay per container, use of clear bags for garbage, mandatory separation programs

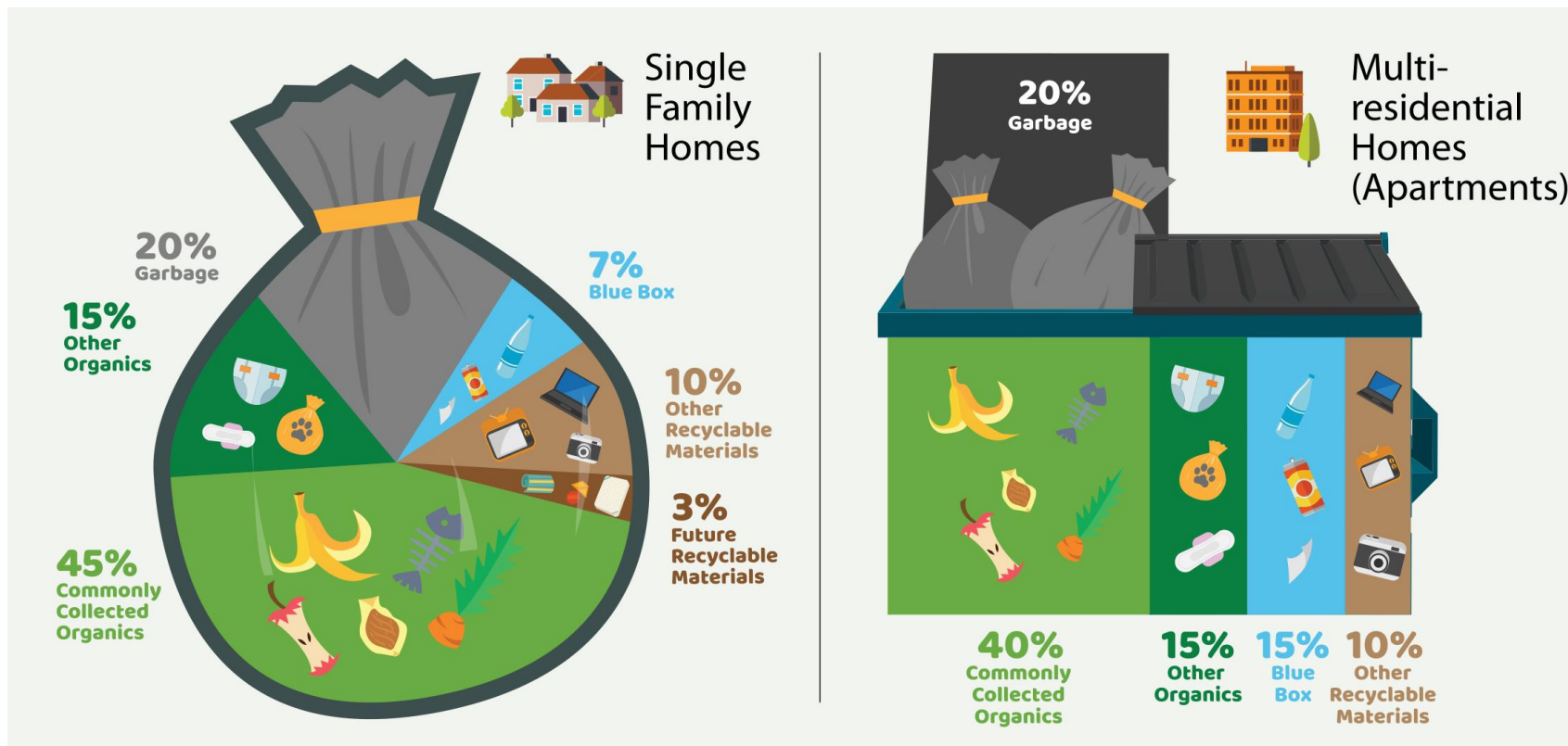


# Waste Diversion Goal

## Setting a new goal for Waste Diversion by 2022.



# What's in London's Household Residual Waste?





# What's in London's Household Residual Waste?

## Commonly Collected Organics

Organics that are easily composted. They include food waste and non-recyclable paper (soiled paper, tissues, paper towels).

## Other Organics

Pet waste and sanitary products (e.g., diapers) which typically require pre-processing to remove the plastic bag that contains the pet waste and plastic covering of the diaper.

## Blue Box

Items that were placed in the garbage but should have gone in the Blue Box.

## Other Recyclable Materials

Items that were placed in the garbage but should have been dropped off at a depot or returned to retailer for recycling such as textiles, scrap metal, electronics, renovation materials and plastic bags.

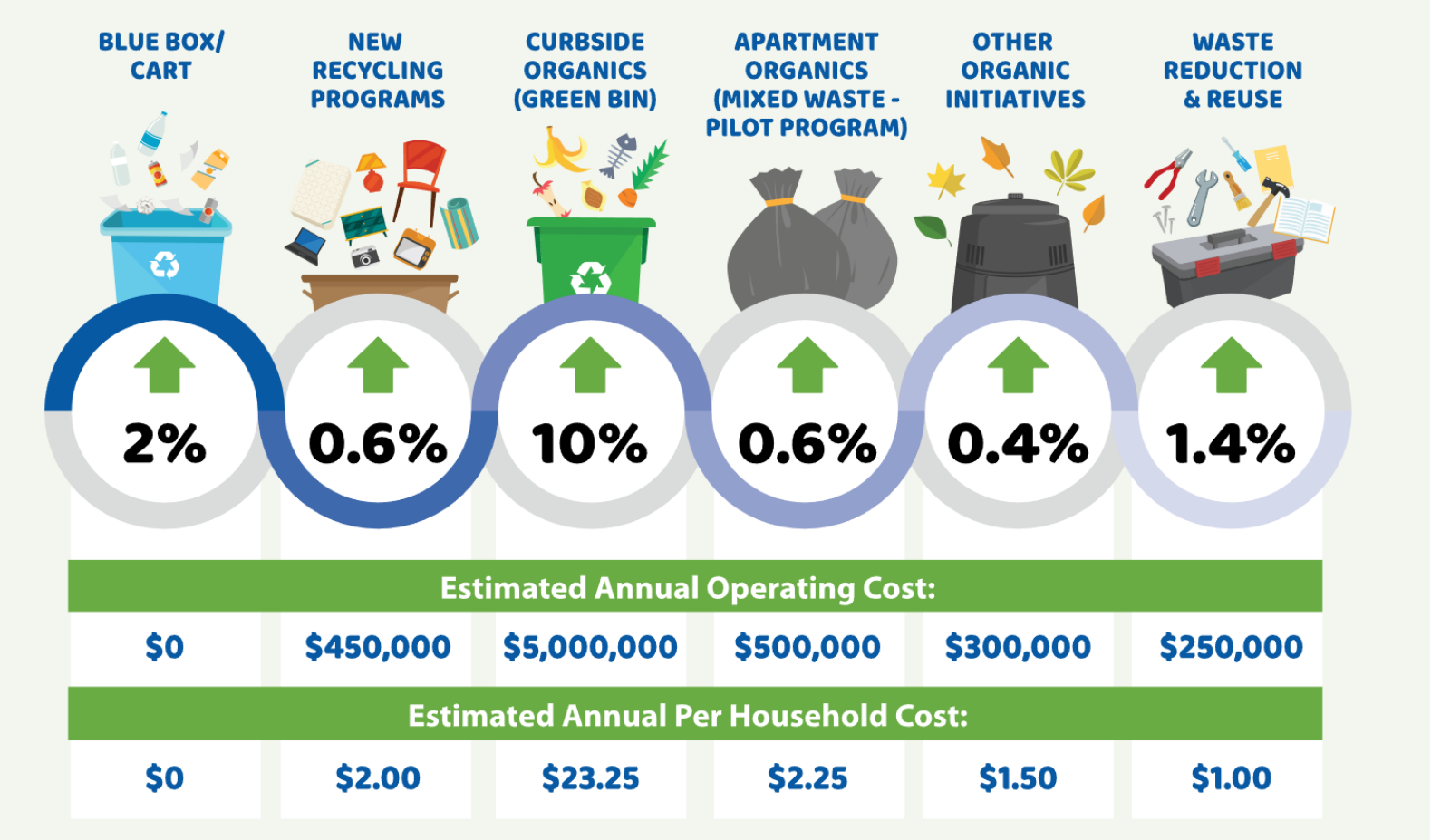
## Future Recyclable Materials

Items that may have local recycling options in the future such as carpets, mattresses and furniture.





# 60% Waste Diversion Action Plan



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# Cost of Waste Diversion Action Plan

What will this cost?

**\$30** per household annually<sup>†</sup>

**\$6,500,000 Estimated Total Annual Operating Cost\***

<sup>†</sup>On average. <sup>\*</sup>Revenues and payments from industry should reduce this cost.



- Part of Council's Strategic Plan (2019 - 2023)
- Research, testing and training centre for business, institutions and municipalities
- Working with partners (e.g., Western University, businesses, associations) to examine new, emerging and next-generation resource recovery and waste conversion technologies... from feedstocks to end markets
- Focus on waste diversion and resource recovery associated with:
  - Household garbage
  - Other materials targeted by the Provincial Government
  - Source separated or facility separated organics
  - Other marketable products and/or creation of energy resources
  - Other "waste materials" into resources
  - Creating higher value end products
  - Growing the local and regional economy







# Hefty® EnergyBag® Pilot Project



## **Phase 1 (late October 2019)**

- 13,000 households started
- 6,000 dropping off at a depot
- 7,000 collected at the curb
- Participants were supplied with the first sample pack (of 20 bags)

## **Phase 2 (late February 2020)**

- Expansion of Pilot Project into new curbside, depot drop-off neighbourhoods and multi-residential neighbourhoods
- Increased communication with participants
- Survey Phase 1 participants for feedback and begin to wrap up some Phase 1 neighbourhoods



# Hefty® EnergyBag® Pilot Project



## Phase 3 (Fall 2020 - 2021)

- Smaller pilot projects will be launched to collect specific project details

## End markets and parameters being examined for tests

- Composite plastic lumber products: such as Rivalries Corporation and ReGen Composites
- Energy conversion technologies – such as BBL Energy Inc. and Green Shields Energy
- The Pilot Project includes a number of measurements such as curbside set outs, participation rates, materials quantity and quality, impacts on collection and processing, etc.
- Further details can be obtained at: [www.London.ca](http://www.London.ca) or <https://getinvolved.london.ca/HEB>



# Hefty® EnergyBag® Pilot Project



## Receiving & Sorting

After collection, the Hefty® orange bags are delivered to the London Recycling Facility.

There they are separated from the other recyclables and stored.

When there are sufficient quantities, the bags are baled and shipped to end market partners.





# Hefty® EnergyBag® Pilot Project



## Phase 1: October 2019

### Curbside Collection

- Approximately 7,000 Pilot Project households can place the Hefty® orange bag out for collection with their recycling.



### EnviroDepot Drop-Off

- Approximately 6,000 Pilot Project households can drop off their Hefty® orange bags at an EnviroDepot.





# Hefty® EnergyBag® Pilot Project



## End Uses

### Mixed Plastics Recycling

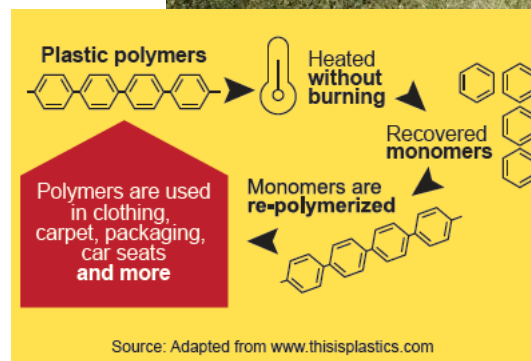
- Compressed with other plastics to make plastic lumber.

### Chemical or Molecular Recycling / Conversion Technologies

- Converted to value added monomers, fuel or other energy sources.

### Solid Recovered

- Fuel - for use in cement kilns





## Green Bin for London

London will be making Green Bin decisions and we want your feedback.

### What goes in the green bin?

Tell us what you would like to see accepted?



### What size bin is best for your household?





# Why Waste?

## Stop Wasting Food!



### The Green Bin Program is being planned for London.

We need to reduce food waste now so that it does not go in the Green Bin.



**Today:** taxpayers pay to landfill food waste



**Future:** taxpayers will pay more for food waste in the green bin

On average, each London household wastes about \$600 / year worth of food that could have been eaten.

### 3 Easy Ways To Reduce Food Waste:



#### Meal Plan

Have a plan for your weekly meals and create your shopping list based on this plan.



#### Leftovers

Food is often thrown out because too much is cooked. Reduce how much you prepare, or plan ahead to use any leftovers.



#### Know Before You Go

Know what's in your fridge, freezer and cupboards, and use food up before buying more.

[london.ca](http://london.ca)



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## The City of London has four drop-off depots for residents.

Here is what was dropped off in 2019.

-  1,500 propane tanks
-  99,000 Fluorescent Lamps
-  42,000 Electronic Devices
-  16,000 Tonnes of Yard Materials
-  2,500 Tonnes of Renovation Materials
-  4,000 Tires

[london.ca/envirodepots](http://london.ca/envirodepots)

[london.ca](http://london.ca)

TRY Recycling  
operates three  
depots for the City.



## Ask Us

## Composting

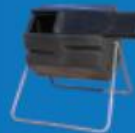
Backyard composting is a simple way to reduce your garbage and make great soil for your garden!

All composters are sold at EnviroDepots for just \$35!



### The Earth Machine™

- Great for managing fall leaves
- Fruit & vegetable scraps
- Low maintenance



### Rotating Composter

- Fast results!



### Enviro World FreeGarden™ EARTH

- Single unit no assembly required
- Great for fall leaves



### Bardmatic™ Digester

- Divert any food and pet waste from garbage



### Large Capacity Composter

- 350 litres
- Great for composting fall leaves!



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