

Updates:

- 1. 60% Waste Diversion Action Plan
- 2. Plastics & the Hefty_® EnergyBag[™] Pilot Project
- 3. Resource Recovery Strategy
- 4. EA for Proposed W12A Landfill Expansion
- 5. Community Energy Action Plan

Prepared for ACE - October 2, 2019

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#1

- •21 actions
- split into 6 categories
- Operating\$6.5 million
- Capital \$15 million



Why Status (subject to MYB deliberations)		
Action	Brief Status – Tentative Timing	
Blue Box (Blue Cart) Programs		
1. Increase capture of recyclables	Provincial initiative; staff time	
New (or Expanded) Recycling Programs & Initiatives		
2. Bulky Plastics	Continuing pilotCurrently no stable long term market for expansion	
3. Carpets	Provincial initiative	
4. Ceramics	 Drop-off at EnviroDepots in Spring/ Summer 2020; Consider Ban Fall 2020 	
5. Clothing/Textiles	Begin developing awareness strategy Winter 2019/2020	

Why Status (subject to MYB deliberations)		
Action	Brief Status – Tentative Timing	
New (or Expanded) R	Recycling Programs & Initiatives (cont.)	
6. Small Metal	Semi-annual collection Fall 2021 (coincide with other collection changes)	
7. Furniture	 Wooden furniture drop-off at W12A EnviroDepot starting Spring/Summer 2020; semi-annual collection 2021 	
8. Mattresses	Provincial initiative	
Curbside Organics N	lanagement Program	
9. Curbside GreenBin10.Implement bi-weekly garbage	Staff working on design, operational and implementation details	

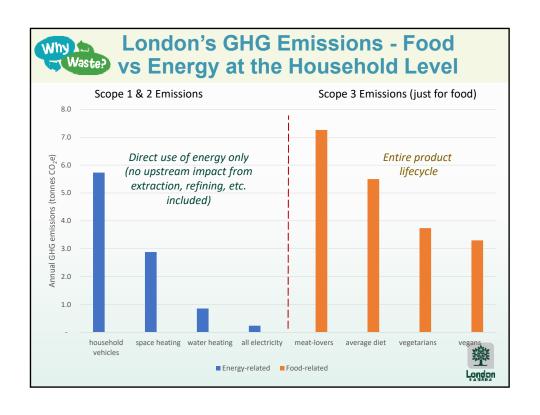
Status (subject to MYB deliberations)		
Action	Brief Status – Tentative Timing	
Multi-residential Organics Management Program		
11.Mixed Waste Processing Pilot	 Fall 2020/Winter 2021 (depends on facility availability) 	
Other Organics Management Programs		
12.Food Waste Avoidance	 Development underway, early 2020 roll-out 	
13.Home Composting	Subsidize composters, event sales beginning 2020	
14. Community Composting	Provide financial support Winter/ Spring 2020	

Status (subject to MYB deliberations)		
Action	Brief Status – Tentative Timing	
Waste Reduction/Reuse		
15.New Coordinator Position	• Summer 2020	
16. Financial Support	 Support for community initiatives beginning Fall 2020 	
17. Reduce Container Limit		
18. Clear Bags	Further examination Winter/Summer	
19.User Pay	2020 (after operational details for Green Bin are finalized)	
20. Resident Incentives		
21. Additional Feedback	 Additional reporting (including waste reduction) Summer 2020 	

How much food waste?		
Diversion/Recovery Opportunities	London % of Waste	Others (GB) % of Waste
Avoidable food waste	23%	8% - 11%
Unavoidable food waste	12%	6% - 9%
Other Organics, Pet waste	25%	15% - 20%
All Organics	~60%	~30% - 40%















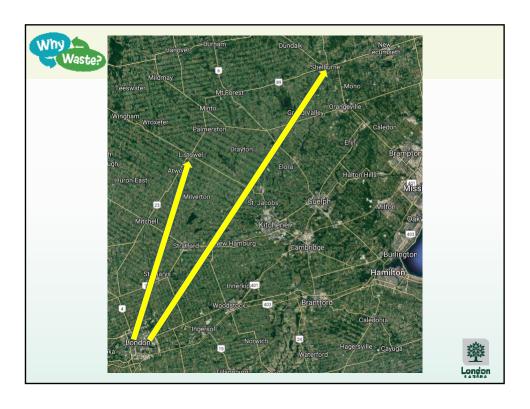


Directions















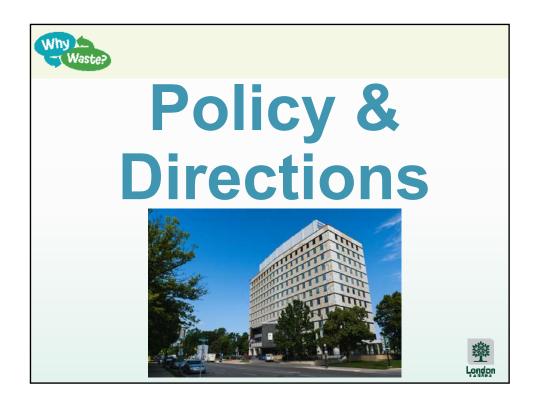














- 1. Research & Investigation
- 2. Training, Testing & Auditing
- 3. Resource & Waste Management Knowledge Exchange (MoUs)
- 4. Technology Demonstrations (MoUs)
- 5. Outreach & Engagement











Why Canadian Plastics Industry **Association**

CPIA establishes:

- 100% of plastics packaging being recyclable or recoverable by 2030
- 100% target for reuse, recycling & recovery of plastics packaging by 2040





Why Council's NEW Direction on Plastics

- b) Civic Administration **BE DIRECTED** to develop a more comprehensive plan to reducing and managing plastics in the residential sector including:
 - addressing upcoming Federal and Provincial legislation, regulation, policies and scientific studies:
 - ii) how senior government direction with producer responsibility will support local policies with respect to reduction, reuse, recycling and recovery of plastics; and
 - iii) report back by early 2021



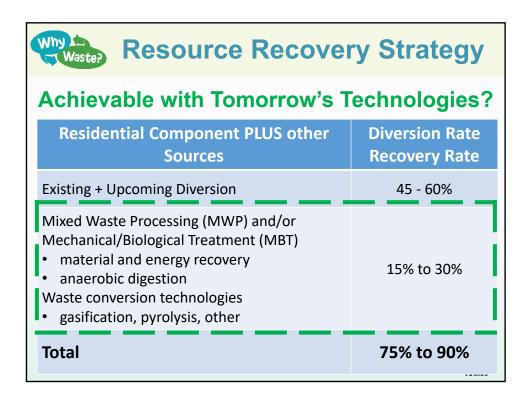
In summary... the "new"
Top 7 "actions" for plastics
Act in London are:

Inform Embrace
Innovate
Collaborate
Commit
(Be) Visible

In summary... the "new"
For plastics
Act in London are:

Embrace
and
implement
EPR







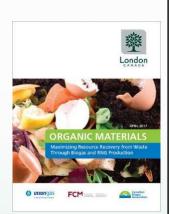






Why 1. Research & Development

- Hefty[®] EnergyBag[™] pilot project
- Over 30 student research projects
- 2 PhD projects food waste avoidance and landfill technology
- 1 PostDoc resource recovery/WCT/disposal
- FCM Green Municipal Fund project





Industrial Research Chair in Why 🗀 Thermochemical Conversion of Biomass and Waste to Bioindustrial Resources

- NSERC funded, 5 years, June 30, 2023
- Current value = +\$3.5 million
- Research Chair Dr. Franco Berruti
- Members:

A&L Laboratories	Global Warming Prevention Technologies
Bella Biochar	Grain Farmers of Ontario
Canadian Plastics Industry Association	Ontario Federation of Agriculture
CHAR Technologies	Ontario Greenhouse Vegetable Growers
City of London	Titan Clean Energy Projects
Domtar Inc	Try Recycling London





Waste? Knowledge	& Waste ManagementExchange (MoU - 1)
4. Technology	Demonstrations (MoU - 2)
ICFAR/Western University	Feedstocks, waste conversion, products (biochars, bio-oils, fuel)
Canadian Plastics Industry Association	Feedstocks, products, resource recovery conversion technologies
Try Recycling	Pre-processing, mixed waste, organic mixes
Green Shields Energy	Gas-phase Chemical (Hydrogen) Reduction
RediCan BioEnergy	Gasification
Tucker Engineering (inactive in London; however re-emerging)	Pyrolysis (demonstration)
Bio-Techfar (inactive in London)	Pyrolysis (demonstration)





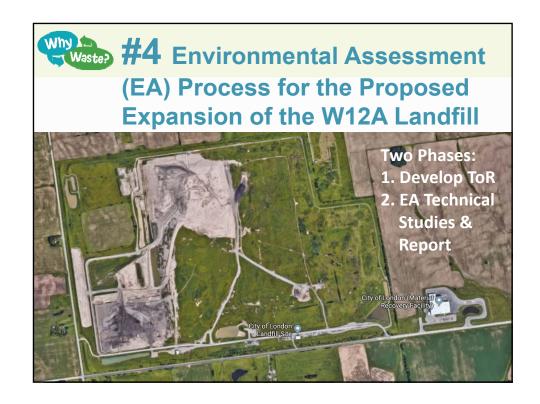
5. Outreach & Engagement

- Ontario Mixed Waste Processing Working Group
- 2 workshops (Canada-wide participation)
- 4 conferences (Resource Recovery Conference)
- Resource
 Recovery
 Partnership
 officially formed
- Canada-wide RRP webinars (2018-2019)

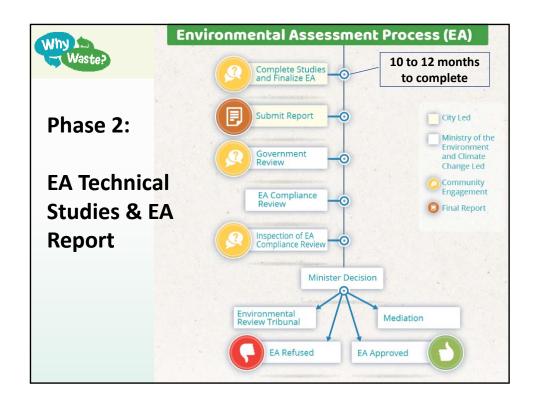


September 19, 2019 6th annual Resource Recovery Partnership Conference (Toronto)







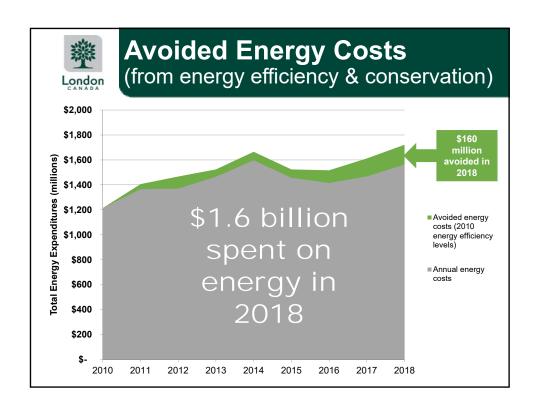


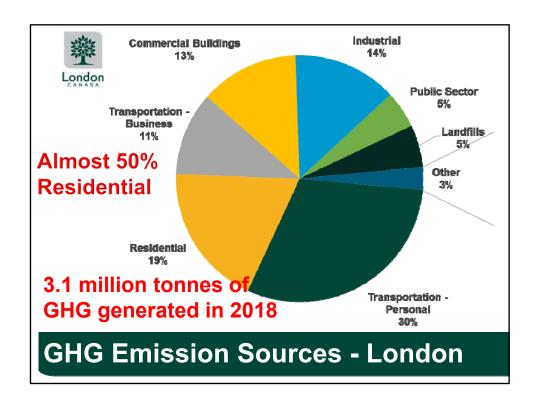


Moving from 2014 – 2018 (CEAP) to 2019 – 2023 (next CEAP being developed with the broader community, project to start in late Fall 2019)



London	Some Key Reports in 2019
Date	Title
April 2	2014-2018 Community Energy Action Plan (CEAP) – Final Update
April 2	Development of the Next 2019-2023 CEAP
April 16	Environmental Programs Annual Overview Update
April 23	Council – 2019-2023 Strategic Plan
April 23	Council – Declaration of Climate Emergency
Oct/Nov	2018 Community Energy & GHG Inventory
Oct/Nov	2019-2023 Corporate Energy Conservation and Demand Management (CDM) Plan
Oct/Nov	Update and Immediate Next Steps – Climate Emergency Declaration (including next CEAP steps)





CEAP - Next Steps	
Major Activity	Timeframe
Complete community engagement process, background documents and finalize internal discussions	Nov – Dec 2019
Launch a broader community engagement plan (Tentative – Dianne Saxe, Nov 19)	Nov 2019 – June 2020
Discussions with London's key energy stakeholders and community leaders	Dec 2019 – March 2020
Develop Draft 2019-2023 CEAP	June – July 2020
Submit Draft 2019-2023 CEAP to Civic Works Committee	Aug 2020