

Advisory Committee on the Environment

Report

9th Meeting of the Advisory Committee on the Environment
October 2, 2019
Committee Room #4

Attendance PRESENT: M. Bloxam (Chair), K. May, R. Sirois, D. Szoller and
A. Tipping and J. Bunn (Committee Secretary)

ABSENT: J. Howell, M. Ross, M.D. Ross, A. Thompson

ALSO PRESENT: S. Armstrong, G. Barrett, J. Grinstead, J.
Stanford, and D. Turner

The meeting was called to order at 12:16 PM.

1. Call to Order

1.1 Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

2. Scheduled Items

2.1 Updates - 60% Waste Diversion Action Plan, Hefty EnergyBag Pilot Project and Community Energy Action Plan

That it BE NOTED that the attached presentation from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to an update on the 60% Waste Diversion Action Plan, the Hefty EnergyBag Pilot Project and the Community Energy Action Plan, was received.

3. Consent

3.1 8th Report of the Advisory Committee on the Environment

That it BE NOTED that the 8th Report of the Advisory Committee on the Environment, from its meeting held on September 4, 2019, was received.

3.2 Municipal Council Resolution - 7th Report of the Advisory Committee on the Environment

That it BE NOTED that the Municipal Council resolution, from its meeting held on September 17, 2019, with respect to the 7th Report of the Advisory Committee on the Environment, was received.

3.3 Notice of Planning Application - Zoning By-law Amendment - 21 Norlan Avenue

That it BE NOTED that the Notice of Planning Application, dated September 18, 2019, from C. Parker, Senior Planner, with respect to a Zoning By-law Amendment related to the property located at 21 Norlan Avenue, was received.

4. Sub-Committees and Working Groups

4.1 Sub-Committee Status Update

That it BE NOTED that a verbal update with respect to the Waste Sub-Committee, from R. Sirois, was received.

5. Items for Discussion

5.1 Conference Subsidy Request

That the expenditure of \$250.00 from the 2019 Advisory Committee on the Environment (ACE) budget BE APPROVED for R. Sirois to attend the 2019 Zero Waste Conference being held October 30-31, 2019; it being noted that the ACE has sufficient funds in its 2019 budget to cover this expense.

5.2 Conference Subsidy Request

That the expenditure of \$300.00 from the 2019 Advisory Committee on the Environment (ACE) budget BE APPROVED for D. Szoller to attend the 2019 Sustainability: Trans-disciplinary Theory, Practice and Action Conference being held October 16-18, 2019; it being noted that the ACE has sufficient funds in its 2019 budget to cover this expense.

5.3 2019 ACE Work Plan

That the attached 2019 Work Plan for the Advisory Committee on the Environment BE FORWARDED to the Municipal Council for approval.

6. Adjournment

The meeting adjourned at 2:07 PM.


Why Waste?

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

Jay Stanford, Director,
Environment, Fleet & Solid Waste



Why Waste? #1

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

60% Waste Diversion Action Plan

What's in the garbage?

Category	Percentage
Commercial/Collectors' organics	45%
Garbage	20%
Other organics	15%
Best Buy	7%
Other Recyclables	10%
Paper Recyclable Materials	3%


Single Family Homes


Category	Percentage
Commercial/Collectors' Organics	40%
Garbage	20%
Other Organics	15%
Best Buy	15%
Other Recyclable Materials	10%


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? getinvolved.london.ca




 Status (subject to MYB deliberations)	
Action	Brief Status – Tentative Timing
Blue Box (Blue Cart) Programs	
1. Increase capture of recyclables	<ul style="list-style-type: none"> Provincial initiative; staff time
New (or Expanded) Recycling Programs & Initiatives	
2. Bulky Plastics	<ul style="list-style-type: none"> Continuing pilot Currently no stable long term market for expansion
3. Carpets	<ul style="list-style-type: none"> Provincial initiative
4. Ceramics	<ul style="list-style-type: none"> Drop-off at EnviroDepots in Spring/Summer 2020; Consider Ban Fall 2020
5. Clothing/Textiles	<ul style="list-style-type: none"> Begin developing awareness strategy Winter 2019/2020

 Status (subject to MYB deliberations)	
Action	Brief Status – Tentative Timing
New (or Expanded) Recycling Programs & Initiatives (cont.)	
6. Small Metal	<ul style="list-style-type: none"> Semi-annual collection Fall 2021 (coincide with other collection changes)
7. Furniture	<ul style="list-style-type: none"> Wooden furniture drop-off at W12A EnviroDepot starting Spring/Summer 2020; semi-annual collection 2021
8. Mattresses	<ul style="list-style-type: none"> Provincial initiative
Curbside Organics Management Program	
9. Curbside Green Bin	<ul style="list-style-type: none"> Staff working on design, operational and implementation details
10. Implement bi-weekly garbage	

 **Status (subject to MYB deliberations)**

Action	Brief Status – Tentative Timing
Multi-residential Organics Management Program	
11. Mixed Waste Processing Pilot	<ul style="list-style-type: none"> Fall 2020/Winter 2021 (depends on facility availability)
Other Organics Management Programs	
12. Food Waste Avoidance	<ul style="list-style-type: none"> Development underway, early 2020 roll-out
13. Home Composting	<ul style="list-style-type: none"> Subsidize composters, event sales beginning 2020
14. Community Composting	<ul style="list-style-type: none"> Provide financial support Winter/ Spring 2020

 **Status (subject to MYB deliberations)**

Action	Brief Status – Tentative Timing
Waste Reduction/Reuse	
15. New Coordinator Position	<ul style="list-style-type: none"> Summer 2020
16. Financial Support	<ul style="list-style-type: none"> Support for community initiatives beginning Fall 2020
17. Reduce Container Limit	<ul style="list-style-type: none"> Further examination Winter/Summer 2020 (after operational details for Green Bin are finalized)
18. Clear Bags	
19. User Pay	
20. Resident Incentives	
21. Additional Feedback	<ul style="list-style-type: none"> Additional reporting (including waste reduction) Summer 2020

Why Waste? **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%



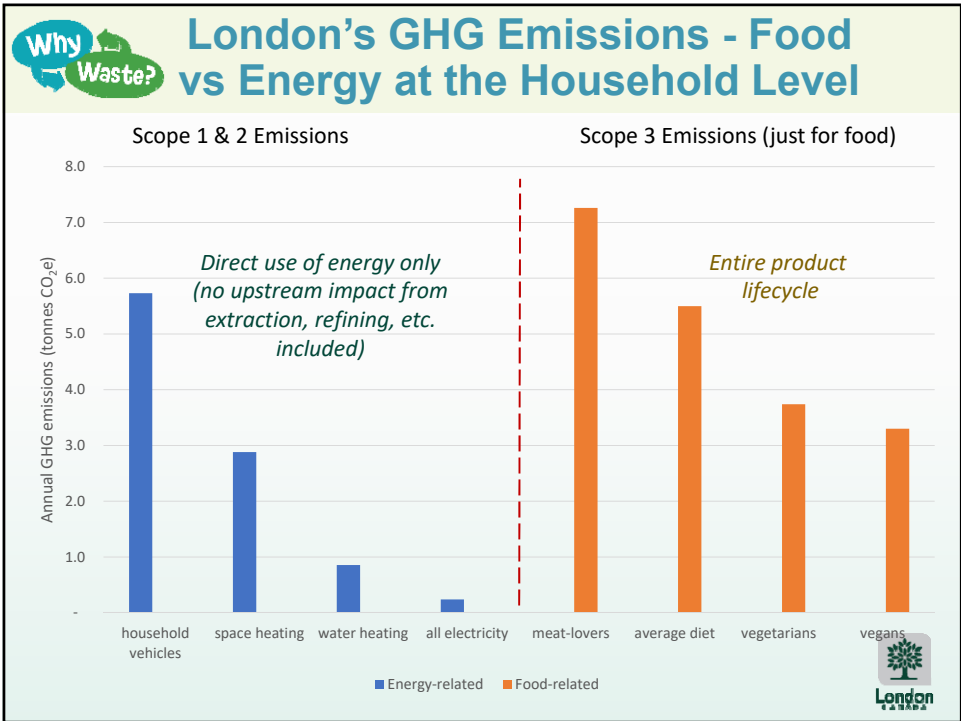
Why Waste?

Value of Food Waste Avoidance



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





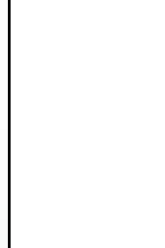
- **\$450 to \$600 per household (\$80 to \$100 million/year) in avoidable food**
- **10% reduction = \$8 to 10 million saved locally**




Why Waste?

Green Bin Implementation Decisions

- Materials to collect
- Size(s) available
- Choices for residents
- Delivery
- Monitoring
- Replacement

				
EXTRA LARGE	LARGE	MEDIUM	SMALL	COMPACT
360 litres	240 litres	120 litres	80 litres	46.5 litres
Depth: 34.5" Width: 25" Height: 44.5"	Depth: 27.5" Width: 24.5" Height: 43"	Depth: 21.5" Width: 19" Height: 37.5"	Depth: 20" Width: 16" Height: 34.5"	Depth: 12" Width: 11" Height: 27"



Why Waste?

Green Bin Implementation Decisions








- Single or co-collection vehicles
- Level of automation



Why Waste?

Green Bin Implementation Decisions

What goes in the green bin?

Food Products
(all consumable foods, raw or cooked)

- Butter, margarine, grease, lard (solid)
- Cake, cookies and candy
- Coffee grounds, filters and tea bags
- Dairy products, eggs and shells
- Fruits and vegetables (raw or cooked)
- Herbs, spices and sauces
- Meat, fish and shellfish (including bones)
- Nuts and shells
- Pasta, bread, cereals, rice and grains

Paper Products

- Boxboard and cardboard (food-soiled)
- Facial tissue, napkins, paper towels
- Flour and sugar bags
- Kraft paper (e.g. meat wrap)
- Microwavable popcorn bags
- Muffin paper
- Newspaper (food-soiled)
- Paper cups and paper plates (food-soiled)
- Polycast containers (e.g. paper ice cream container)
- Shredded paper (small amounts)

Animal Waste

- Bird seed
- Cat litter
- Feathers/fur
- Pet bedding
- Pet food
- Pet waste


Personal Hygiene Products

- Diapers
- Hair
- Incontinence products
- Nail clippings
- Sanitary products
- Toothpicks

Other Acceptable Items Include:

- Houseplants including soil and flowers
- Sawdust from wood (not pressure treated, melamine, composite wood or particle board)
- Wooden craft sticks (uncoated)
- Wooden stir sticks

Still don't know where it goes?
Try the Bindicator – York Region's online, easy-to-use waste directory york.ca/bindicator



Why Waste?

Green Bin Implementation Decisions

Choices: Aerobic Composting or Anaerobic Digestion (Biogas)








Why Waste?

#2 London's Action on Plastics

Act
Inform
Innovate
Collaborate
Commit
(Be) Visible

1. Reduce
2. Reuse
3. Recycle
4. Recover
5. Policies & Directions



Why Waste?

Reduce / Reuse



Why Waste?

London CLEAN & Green

The London Free Press

NEWS BUSINESS LOCAL NEWS

FEATURED: FACE IT VIDEOS PHOTOS SUBMIT A LETTER

London Clean and Green advocates 'refusables' to cut a source of litter

The City of London wants you to add a new word to your vocabulary: "Refusables."

JONATHAN JUHA Updated: April 16, 2019





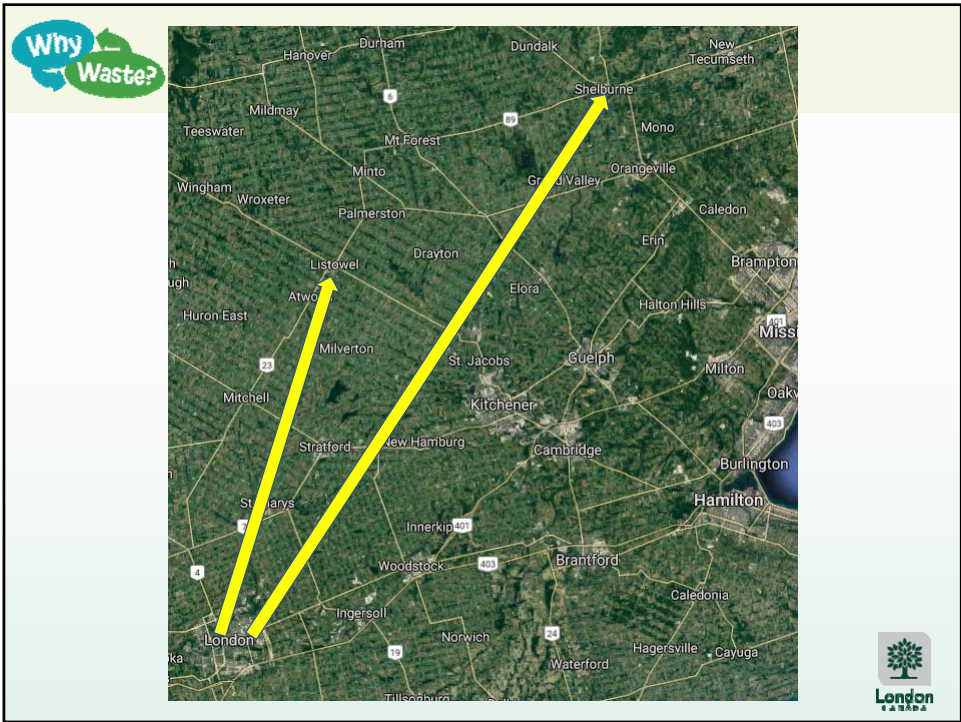
ZERO WASTE WORKSHOPS AND TALKS



Why Waste?

Recycle



Why Waste?

Plastics End Markets

London's HDPE, Mixed plastics and plastic film EFS in Listowel, Ontario (backup - Green Line Polymers, USA)



About 1,200 tonnes from London

A PRIME REPLACEMENT

- PP, PE, LDPE and HDPE repro for:
 - injection molding
 - extrusion
 - blow molding



Why Waste?

Plastics End Markets

PET - Ice River, Shelburne, Ontario (backup Plastrec, Joliette, Quebec)

About 2,100 tonnes from London



Support closed-loop recycling

Why Waste?

Plastics End Markets

Not used by London at this time

Inbound Plastic

- Pre-Picked 1-7 Mixed Plastic Bales
- Tubs and Lid Bales
- Post-Consumer PE Bales
- Post-Consumer PP Bales



REVital POLYMERS

PYROWAVE™ CLOSING THE LOOP

INEOS STYROLUTION

London & S&B

Why Waste?

Recovery




Why Waste? **Hefty® EnergyBag™ Pilot**

Purpose: Divert more plastics from landfill

1. Reduce the amount of plastic being mismanaged (tossed on the ground)



Materials to Collect: non-recycled and hard to recycle plastic items:

<ul style="list-style-type: none"> • juice and food pouches • chip and snack bags • meat and cheese bags • cereal and cake box pouches • tooth paste tubes 	<ul style="list-style-type: none"> • candy wrappers • plastic dinnerware and utensils • frozen fruit/vegetable bags • pet food bags • straws and stirrers
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Why Waste? **20,000 HH will be Invited**



- 13,000 curbside
- 1,000 units (8 to 10 buildings)
- 6,000 access to EnviroDepot



Why Waste? **End Markets to be Examined**

- composite plastic products
- energy
- fuels
- oils
- waxes
- feedstocks for making new plastics



Why Waste? **Recent Canadian Action**



From dumpster to diesel: How a pilot project in Whitby is turning plastic waste into fuel

Barckers claim project can convert 5 tonnes of waste into 4,000 litres of fuel per day

Talia Ricci | CBC News | Posted: Aug 13, 2019 4:00 AM ET | Last Updated: 2 hours ago



A pilot project in Whitby, Ont., sorts non-recyclable plastics into usable fuel, rather than having them go to a landfill. (Talia Ricci/CBC)



The Chronicle Herald

Chester firm aims to enable customers to convert to renewable synthetic fuel



Why Waste?

Policy & Directions



Why Waste?

London Waste to Resources INNOVATION CENTRE

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



RESOURCE RECOVERY PARTNERSHIP
Advancing Resource Recovery In Canada

CONTACT US 905.941.2174

EVENTS REBO-RRES PARTNERS ABOUT US CONTACT-US



RESOURCE RECOVERY PARTNERSHIP
A 21st century approach to driving a sustainable economy. Continuing the conversation.

Upcoming Events:
September 19: Conference, Toronto, ON



Why Waste?

Building Local Capacity (Community & Business)

London Environmental Network

Learn About our Members

Green Economy London

You want a sustainable future for your business and your community. We want that too.

Find out how you can join

Green Economy London

About Us | Program Details | News & Events | Get Involved | [Join Us!](#) | Member Login

Why Waste?

News Release

Ontario Announces Next Steps to Improve Recycling and Tackle Plastic Waste

Improving the Blue Box Program Will Save Taxpayers Money and Help Divert More Waste from Landfills

August 15, 2019 10:10 A.M. | [Ministry of the Environment, Conservation and Parks](#)

Government of Canada taking action to reduce plastic pollution

June 10, 2019
Mont-Saint-Hilaire, Quebec

London
ON CANADA

 **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



 **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:

- i) 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



Why Waste? In summary. . . the “new”
Top 7 “actions” for plastics
Act in London are:

Inform **Embrace**
Innovate **and**
Collaborate **implement**
Commit **EPR**
(Be) Visible



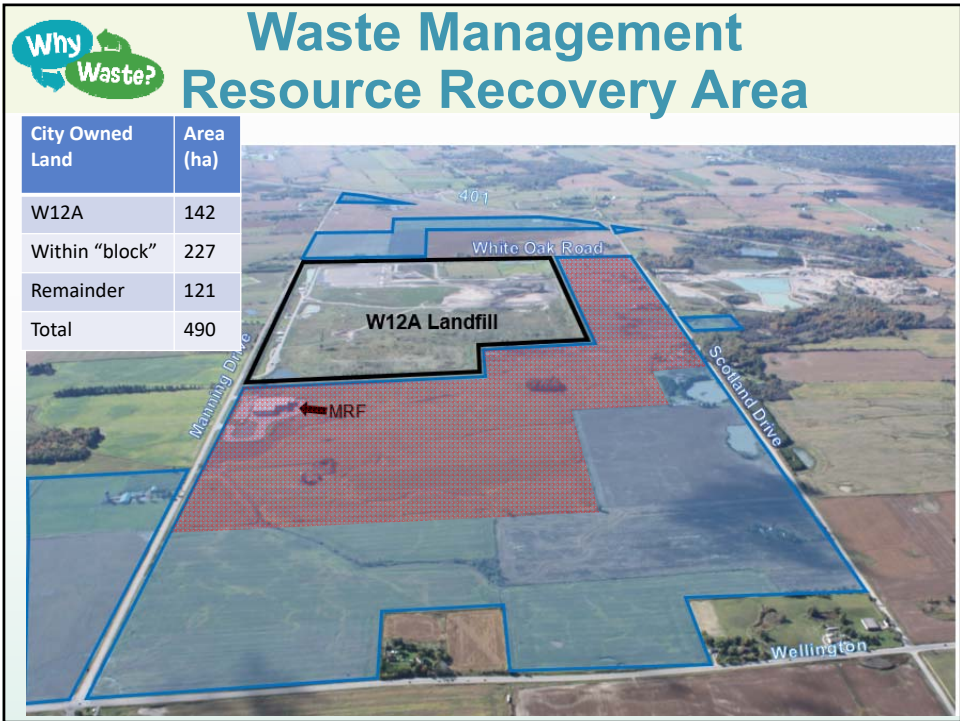
Why Waste? **#3** Resource Recovery Strategy
& London Waste to
Resources Innovation Centre



Why Waste? **Resource Recovery Strategy**

Achievable with Tomorrow's Technologies?


Residential Component PLUS other Sources	Diversion Rate Recovery Rate
Existing + Upcoming Diversion	45 - 60%
Mixed Waste Processing (MWP) and/or Mechanical/Biological Treatment (MBT) <ul style="list-style-type: none"> • material and energy recovery • anaerobic digestion Waste conversion technologies <ul style="list-style-type: none"> • gasification, pyrolysis, other 	15% to 30%
Total	75% to 90%





Institute for Chemicals and Fuels from Alternative Resources
Western University



iocfar



Western

Department of Chemical and Biochemical Engineering (Faculty of Engineering)

- 25,000 square feet of laboratory
- Small and large scale pilot plants
- Advanced analytical facilities
- Prototypes






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 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



Why Waste?

2. Training, Testing & Auditing

- Products through the MRF
- Landfill operations
- Waste audits
- MRF training room



Mixed Waste Processing and Mechanical/Biological Treatment (MBT)




Why Waste?

3. Resource & Waste Management Knowledge Exchange (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)



Why Waste?

Technology Site Visits



Gasification – Enkernem



Pyrolysis – Tucker Engineering (MoU)



Gasification – Blue Concord (MoU)



Gasification – Aries Clean Energy




Mechanical-Biological Treatment – OES

Why Waste? **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)



Why Waste? **#4 Environmental Assessment (EA) Process for the Proposed Expansion of the W12A Landfill**



Two Phases:

1. Develop ToR
2. EA Technical Studies & Report

Why Waste?

Proposed Amended ToR


- City submitted Proposed ToR on October 12, 2018
- Submitted Proposed Amended ToR Feb 7, 2019
- **APPROVED** . . . July 30, 2019
- Update report to CWC, September 24, 2019

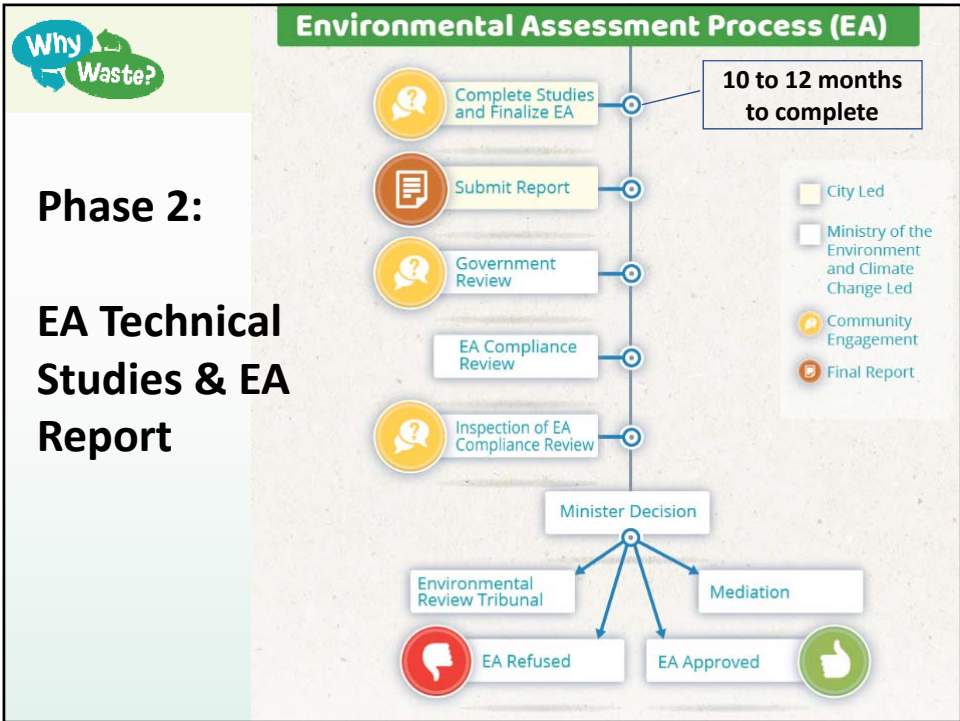
February 2019

Volume I


Proposed Amended Terms of Reference

Environmental Assessment of the Proposed W12A Landfill Expansion, City of London






 **#5 - London's Community Energy Action Plan (CEAP)**



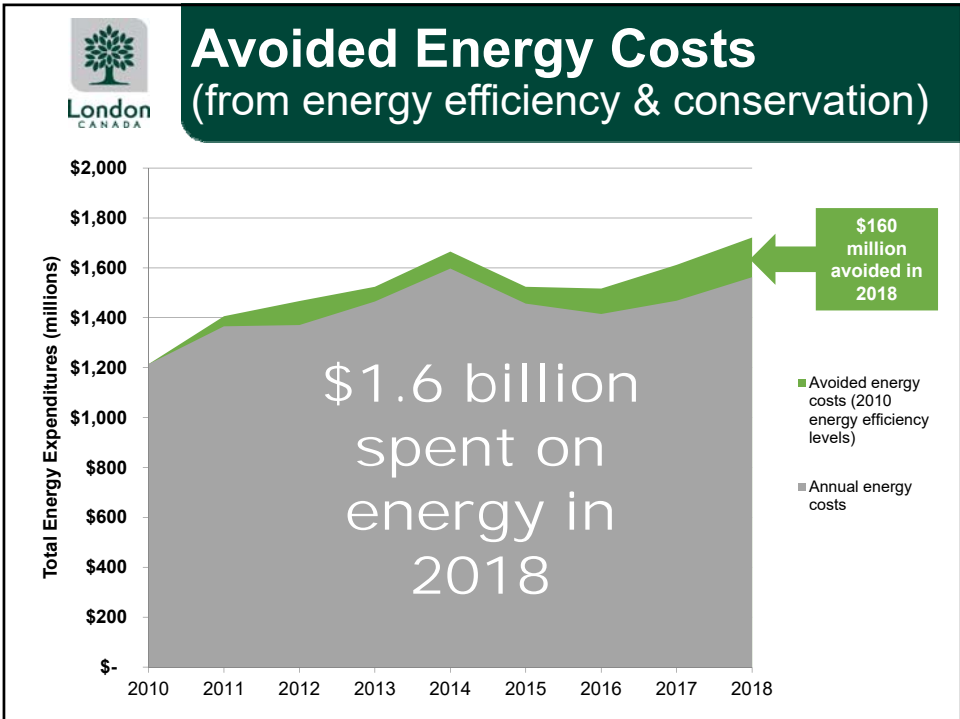
Moving from 2014 – 2018 (CEAP) to 2019 – 2023 (next CEAP being developed with the broader community, project to start in late Fall 2019)

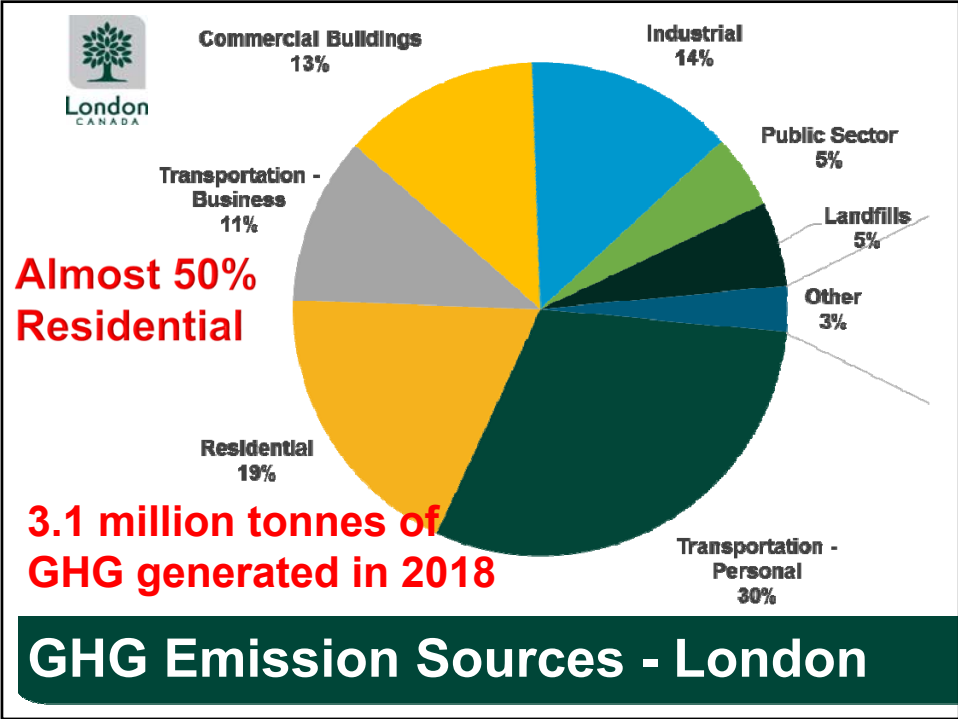





Some Key Reports in 2019

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
<i>Oct/Nov</i>	<i>2018 Community Energy & GHG Inventory</i>
<i>Oct/Nov</i>	<i>2019-2023 Corporate Energy Conservation and Demand Management (CDM) Plan</i>
<i>Oct/Nov</i>	<i>Update and Immediate Next Steps – Climate Emergency Declaration (including next CEAP steps)</i>





 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 (<i>Tentative – Dianne Saxe, Nov 19</i>)	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

ADVISORY COMMITTEE ON THE ENVIRONMENT - 2019 WORK PLAN

(updated September 23, 2019)

Project / Initiative & Background	Lead/ Responsible	Proposed Timeline	Proposed Budget	Actual Expenditure	Link to Strategic Plan	Status
<p><u>Waste</u></p> <p>Managing organic waste</p> <p>1. Review & prioritize leading edge waste management systems that focus on waste as a resource technology (biogas, anaerobic digester, landfill gas recovery – e.g. Edmonton Waste Management Centre of Excellence)</p> <p>2. Follow the progress of City regarding development of a Resource Recovery Centre for London (invite staff members speak to ACE)</p> <p>3. Continue research into organic waste diversion. Examine other cities’ highly successful green bin programs (i.e. Toronto, Halton, Markham)</p> <p>Resource Recovery</p> <p>4. Monitor & review on-going resource recovery initiatives.</p> <p>Landfill Expansion</p> <p>5. Monitor & review on-going landfill expansion, including plan to get to 60% diversion.</p>	<p>Waste sub-committee</p>	<p>On-going</p>	<p>\$0</p>		<p>Building a Sustainable City 1-Robust Infrastructure D-Increase efforts resource recovery/ long-term disposal capacity/ reducing community impacts (p. 11 #1D)</p> <p>Building a Sustainable City 3-Strong and Healthy Environment D-Support resident/community driven initiatives... (p.12 #3D)</p> <p>Growing Our Economy 3-Local, Regional and Global Innovation B-Lead development of new ways to resource/energy recovery... (p. 17B)</p> <p>Leading in Public Service 3-Proactive Financial Management A – Well planned finances/limit burden on current and future rate payers. (p.21 #3A)</p>	<p>Received an excellent presentation and participated in an interactive discussion from Barry Orr, Sewer Outreach and Control Inspector – March 7, 2018</p> <p>Subsequent motion regarding the “Toilets Are Not Garbage Cans” stickers made at June 6, 2018 meeting.</p> <p>Received a presentation from Claudia Marsales, Senior Manager, Waste Management Services, City of Markham regarding Waste Management Options on June 6, 2018.</p> <p>Sub-committee members have attended the City Waste Management Work Group meetings on Landfill expansion discussions.</p> <p>The committee submitted a report to the Civic Works Committee regarding residential waste management issues July 4, 2018.</p> <p>Be mindful of the City’s declaration of a climate emergency in all approaches to waste reduction and diversion.</p>

Project / Initiative & Background	Lead/ Responsible	Proposed Timeline	Proposed Budget	Actual Expenditure	Link to Strategic Plan	Status
<p><u>Sustainability Commitment</u></p> <p>6. Request updates from Greg Barrett regarding Resiliency Strategic Plan status.</p> <p>7. Support further actions in regards to sustainability & resiliency.</p>	Sustainability & Resiliency sub-committee	Remainder of 2019	\$0		Building a Sustainable City 3-Strong and Healthy Environment	
<p><u>Community Education</u></p> <p>8. Support community events directly and indirectly, as possible to increase awareness of environmental issues.</p> <ul style="list-style-type: none"> Partner with London Public Library & London Environmental Network to organize a second series of "Green in the City" talks 	ACE	November 2019	\$500		Strengthening Our Community Building a Sustainable City Growing Our Economy Leading in Public Service	
<p><u>Renewable Energy</u></p> <p>9. Explore possibilities for hydro-electric along Thames River</p> <p>10. Explore solar energy on municipally-owned buildings</p> <p>11. Ensure that co-generation/local electricity generation initiatives do not negatively impact the City of London carbon-dioxide emissions targets and carbon footprint or compromise local air quality</p>	Energy sub-committee	Remainder of 2019	\$0		Building a Sustainable City -Robust Infrastructure... Page 11, item 1B -Strong & healthy environment... Page 12, item 3A thru F, 5B	
<p><u>Community Energy Action Plan</u></p> <p>12. Provide input on 2019 review.</p>	Energy Sub-Committee	Fall 2019	\$0		Building a Sustainable City -Robust Infrastructure... Page 11, item 1B -Strong & healthy environment... Page 12, item 3A thru F, 5B	

Project / Initiative & Background	Lead/ Responsible	Proposed Timeline	Proposed Budget	Actual Expenditure	Link to Strategic Plan	Status
<p><u>Built Environment</u></p> <p>13. Develop a draft green roof by-law</p>	Energy sub-committee		\$0		Building a Sustainable City -Robust Infrastructure... Page 11, item 1B -Strong & healthy environment...Page 12, item 3A thru F, 5B	<ul style="list-style-type: none"> Find out if City staff are already working on this by-law
<p><u>City Budget</u></p> <p>14. Review and provide feedback on budget.</p>	ACE	November/December 2019	\$0		Leading in Public Service	<ul style="list-style-type: none"> Budget consultations take place in December
<p><u>Committee Member Education & Development</u></p> <p>22. Assist ACE members with registration fees for conferences pertaining to ACE mandate</p>		October to December 2019	Maximum of \$1000		ALL	<ul style="list-style-type: none"> Members who attend conferences with financial help from ACE will provide a written report about their findings to go on the next ACE agenda, and give a verbal report at the meeting.