



Environment & Infrastructure Services Orientation – Focus on ESACAC



Environmental Stewardship & Action Community Advisory Committee
June 29, 2022



ESACAC Mandate

The Environmental Stewardship and Action Community Advisory Committee is a Council resource with respect to matters such as the following:

- remedial planning toward the clean-up of contaminated areas;
- waste reduction, reuse and recycling programs;
- water and energy conservation measures;
- climate change mitigation;
- the development and monitoring of London's Urban Forest Strategy and Climate Emergency Action Plan and a resource for other related policies and strategies;
- the maximization of the retention of trees and natural areas; and
- other aspects of environmental concerns as may be suggested by the Municipal Council, its other Committees, or the Civic Administration.



Environment & Infrastructure Team – Focus on ESACAC

Senior Leadership Team liaison to ESACAC:

- Kelly Scherr, Deputy City Manager, Environment & Infrastructure Services

Environment & Infrastructure Directors:

- Ashley Rammeloo, Water, Wastewater & Stormwater
- Scott Stafford, Parks and Forestry
- Jay Stanford, Climate Change, Environment & Waste Management

Enterprise-wide connections with all Services Areas



Water, Wastewater & Stormwater - Overview

- Drinking water distribution
- Sanitary sewage collection and treatment
- Flooding mitigation and response
- Stormwater management
- Channel remediation
- Thames River water quality



Overflows and Bypasses

- A series of reports to Civic Works Committee in progress
- Strategies for reducing overflows will be included in many capital projects
- Provincial funding received to provide enhanced public notification



Wastewater Treatment Master Plan

- Completed in Q1 2022
- Developed a roadmap for Wastewater servicing over the next 30-50 years
- First major project – Upgrade Vauxhall WWTP and complete Pottersburg-Vauxhall Interconnection



Biosolids Management Master Plan

- Establish strategy for solids disposal
- Opportunity for major role in meeting City's Net-Zero targets

Disaster Mitigation and Adaptation Fund

- Flood protection at Greenway and Adelaide WWTPs
- \$19.8M federal funding
- Detailed Design to begin Fall 2022



Channel Rehabilitation

- Restore water flow, mitigate flooding, and improve natural environment
- Natural channel design promotes healthier streams and biodiversity
- Rehabilitated urban channels:
 - Powell Drain (2020)
 - Mud Creek Phase 1 (2021); Phase 2 (2023)
 - Kiwanis Park (2021)
 - Southwinds Channel (2022)



*Pottersburg
Creek at
Kiwanis Park
(2021-2022)*



Channel Rehabilitation



Mud Creek Rehabilitation (Phase 1 - 2021)

Climate Change Adaptation: Low Impact Development



*Filter Fill Raingarden
Mascot (2018)*

- Create “sponges” on the surface to absorb rainwater
- Promote groundwater recharge, reduce runoff, and flooding
- City Pilot Projects:
 - Bostwick Community Centre
 - SOHO at Waterloo/Horton
 - Fire Station 11
 - Oakridge Acres
 - And more...
- LIDs incorporated into 2019 City Design Standards



*SOHO Rain Gardens (2017);
“Archie” at Fire Hall 11 (2018)*



Upcoming ESACAC Discussions

The following items will be brought forward in 2022:

Timing	Item
Q3	<ul style="list-style-type: none">• Overflows and Bypasses Introduction and Current Strategy
Q4	<ul style="list-style-type: none">• Design of Flood Protection at Adelaide and Greenway Wastewater Treatment facilities
Q4	<ul style="list-style-type: none">• Overview of Channel Restoration Projects

Parks & Forestry - Overview



Parks and Recreation Masterplan
2019 to 2028

Reviews every 5 years

Inform planning , budgeting and
decision making

Over 500 Parks and Civic Spaces



Urban Forestry Strategy

Mission

- Plant More – Tree planting strategy
- Protect More – Tree Protection By-Law
- Maintain Better – Operations, trim cycles
- Engage the Community – VTIP, Tree Me, ReForest London





Council's Strategic Plan and Related Strategies

- Cycling Masterplan
- Thames Valley Corridor Plan
- One River Environmental Assessment
- Community Diversity and Inclusion Strategy
- Climate Emergency Action Plan





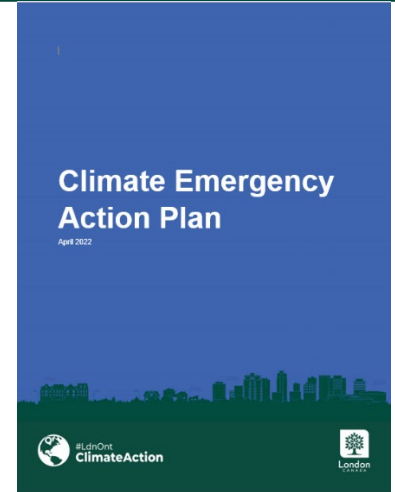
Upcoming ESACAC Discussions

The following items will be brought forward in 2022:

Timing	Item
Q4	• Tree Planting Strategy

Climate Change, Environment & Waste Management - Overview

- Coordination and collaboration of CEAP – mitigation, adaptation
- Environmental community outreach - various
- Reduction, resources, diversion and recovery
- Collection
- Disposal

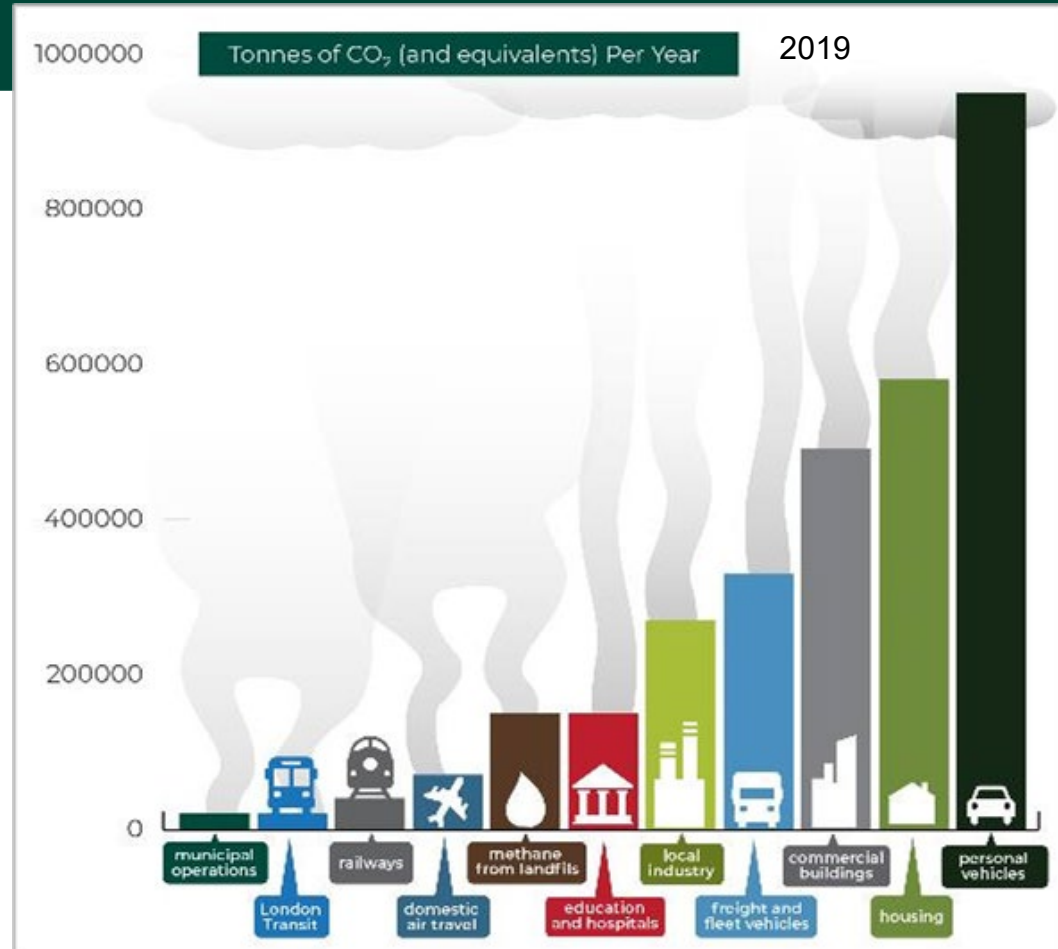




Climate Emergency Action Plan Overview

Goals

1. Net Zero Emissions by 2050
2. Improved Resilience
3. Bring Everyone Along





Areas of Focus – Workplans – Shared Responsibilities

1. Engaging, Inspiring and Learning from People
2. Taking Action Now (Household Actions)
3. Transforming Buildings and Development
4. Transforming Transportation and Mobility
5. Transforming Consumption and Waste as Part of the Circular Economy



Areas of Focus – Workplans – Shared Responsibilities

6. Implementing Natural and Engineered Climate Solutions and Carbon Capture
7. Demonstrating Leadership in Municipal Processes and Collaborations
8. Adapting and Making London More Resilient
9. Advancing Knowledge, Research and Innovation
10. Measuring, Monitoring and Providing Feedback

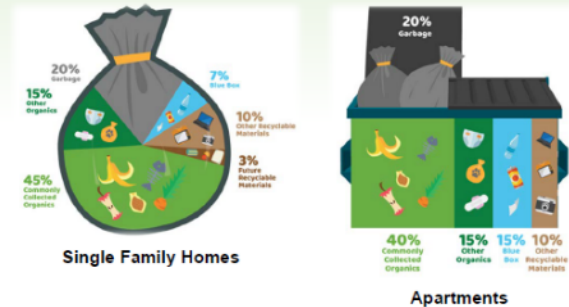
60% Waste Diversion Action Plan

Implementation Areas

1. Blue Box/Blue Cart recycling (and transition to Extended Producer Responsibility – EPR)
2. New or expanded recycling
3. Curbside Green Bin
4. Multi-residential organics
5. Food waste avoidance, on-site composting
6. Reduction & reduce initiatives and policies
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60% Waste Diversion Action Plan

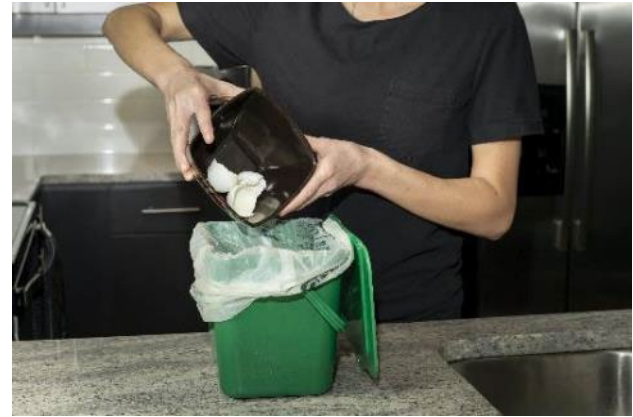
What's in the garbage?



Green Bin Implementation

Update report at CWC (June 21/22)

- Vehicles delays
- Implementation in mid-2023 (still to be finalized)
- Outstanding items include:
 - Pet waste
 - Diaper management
 - Where to process organics





London Waste to Resources Innovation Centre

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

Part of the development of the Resource Recovery Plan

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London Waste to Resources

INNOVATION CENTRE



W12A Landfill Expansion

Final stages of EA – submitted to Province

- 25 year expansion (until 2049)
- Going vertical
- About 9.8 million tonnes
- Increased investments for environmental protection (e.g., leachate, stormwater, landfill gas, odour control)





Upcoming ESACAC Discussions

The following items will be brought forward in 2022:

Timing	Item
Q3	<ul style="list-style-type: none">• Overview of Climate Emergency Action Plan and potential role(s)
Q4	<ul style="list-style-type: none">• Food waste avoidance - next steps• Green Bin implementation - next steps



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Questions



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Your ideas and feedback help shape the future of our city.



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