

London's Draft Climate Emergency Action Plan (CEAP)

Strategic Priorities & Policy Committee (SPPC)

Meeting on February 8, 2022



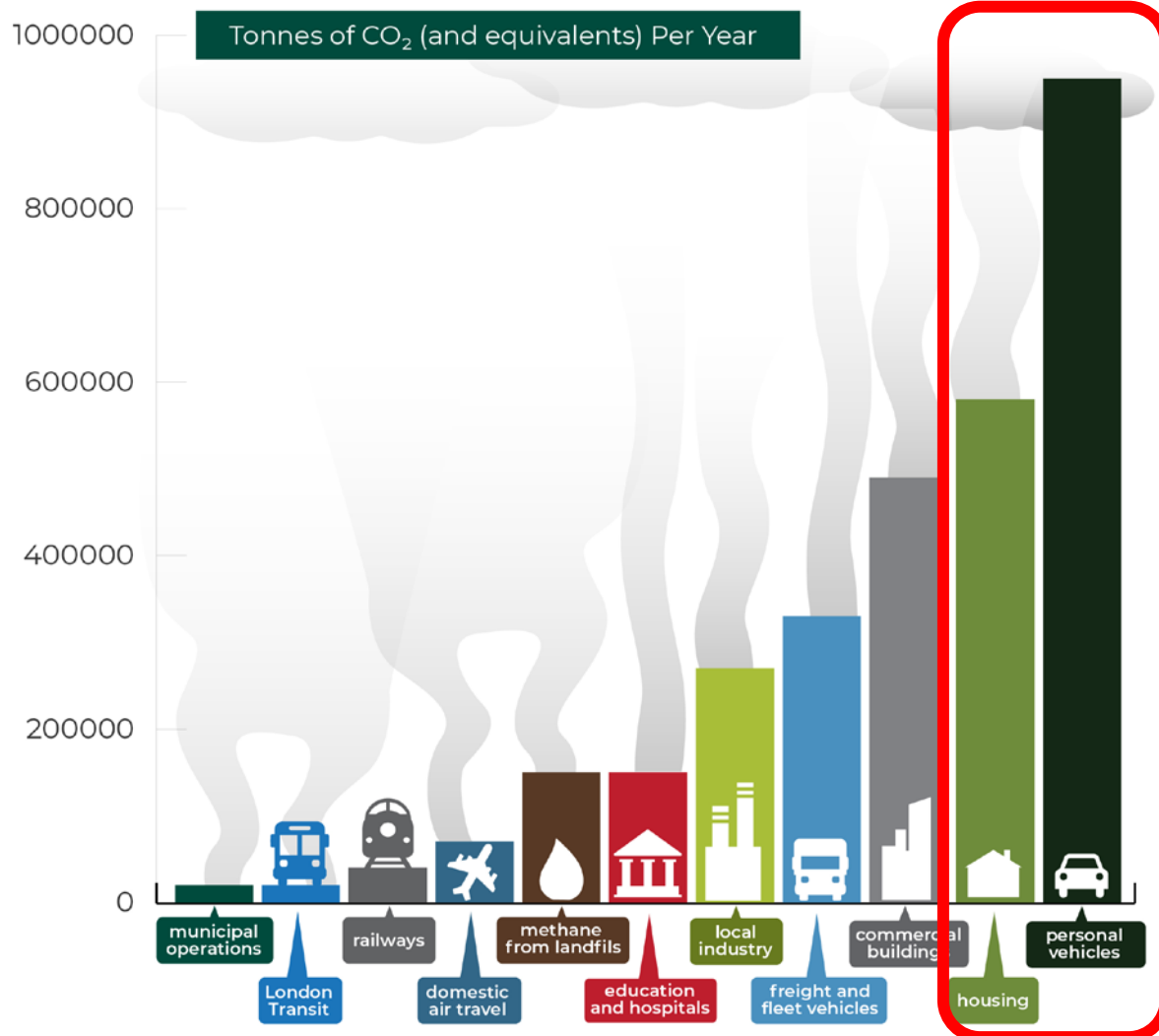
#LdnOnt
ClimateAction



London
CANADA

Community Emissions (2019)

3.0 million tonnes CO₂e in 2019



Average Household Emissions



Vehicle Gasoline
49%



Natural Gas
Home Heating
31%



Natural Gas
Water Heating
9%



Methane From
Food & Organic
Waste in Garbage
7%



Propane BBQs etc.
1%



Electricity
Furnace & Air Conditioner
1%



Electricity
Appliances & Electronics
1%



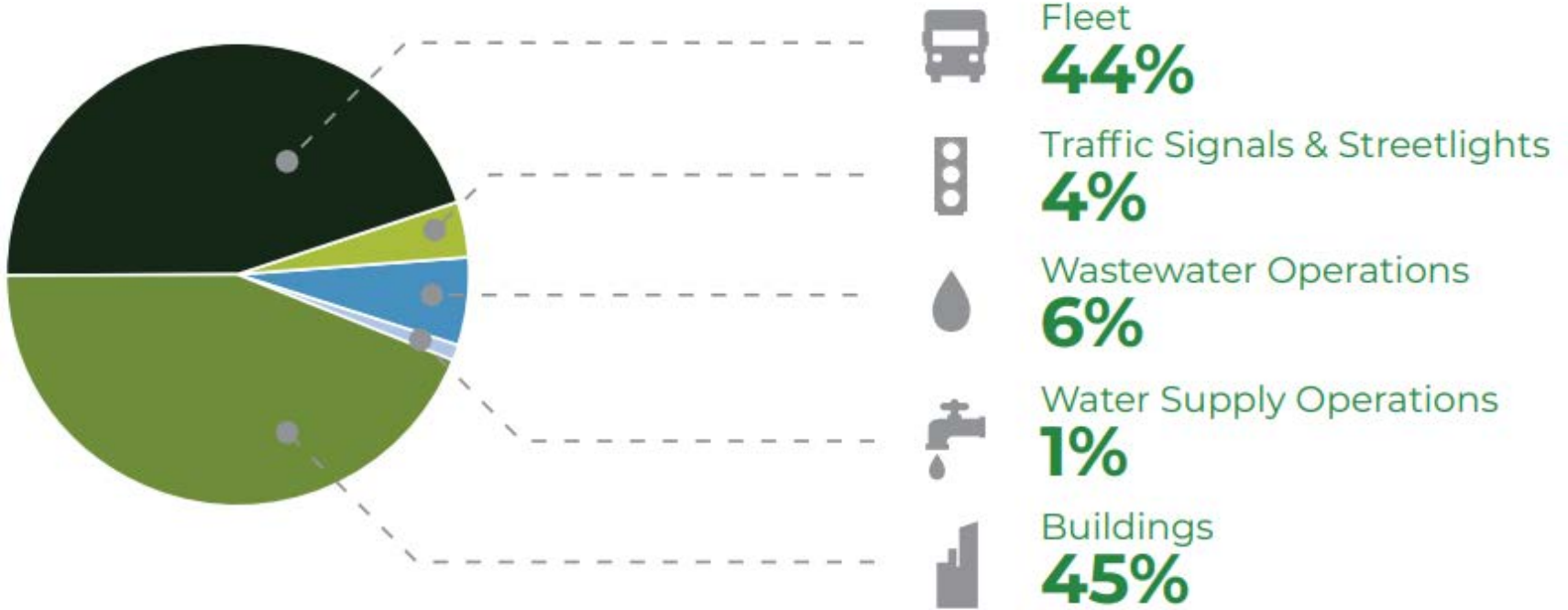
Electricity
Lighting
<1%

2019 data
(pre Covid-19)

The average home in
London emits
10.5
tonnes per year.



Corporate Emissions (2019)



18,600 tonnes CO₂e in 2019



Key Reporting Actions to Date

- 2019 - Climate Emergency declaration and report
- Jan. 2020 - launch of community engagement
- Oct. 2020 - release of Discussion Primer
- Dec. 2020 to Apr. 2021 - use of climate action simulator
- 2020/2021 - development of climate lens (ongoing)
- Aug. 2021 – submit several climate change reports to Civic Works Committee



Some Recent Investments that Address Climate Change

Investment Category	Budgets
Community and household action (e.g., CEAP - annual)	\$160,000
Transportation and mobility (e.g., capital for rapid transit, e-buses, active transportation)	\$345,000,000
Waste management/circular economy (e.g., 60% Waste Diversion Action Plan including Green Bin - annual)	\$6,500,000
City-owned buildings, utilities and fleet (e.g., capital for waste heat recovery, compressed natural gas packers, community housing, e-bikes)	\$40,000,000
Infrastructure adaptation (e.g., West London Dykes)	\$14,000,000

Over \$400 million invested in the last three years



CEAP Engagement

Engagement Participation

- 2,700 individual direct submissions
- Some individuals and groups have not yet been adequately reached

Broader Engagement Reach

- Over 19,000 views/impressions (GetInvolved and eDemocracy site visits)
- Over 7,000 attendees or online views of City/Library/London environmental Network events



CEAP Engagement - Learnings

2 Key Themes Emerged:

1. Tackling emissions (mitigation) and resilience (adaptation) in:

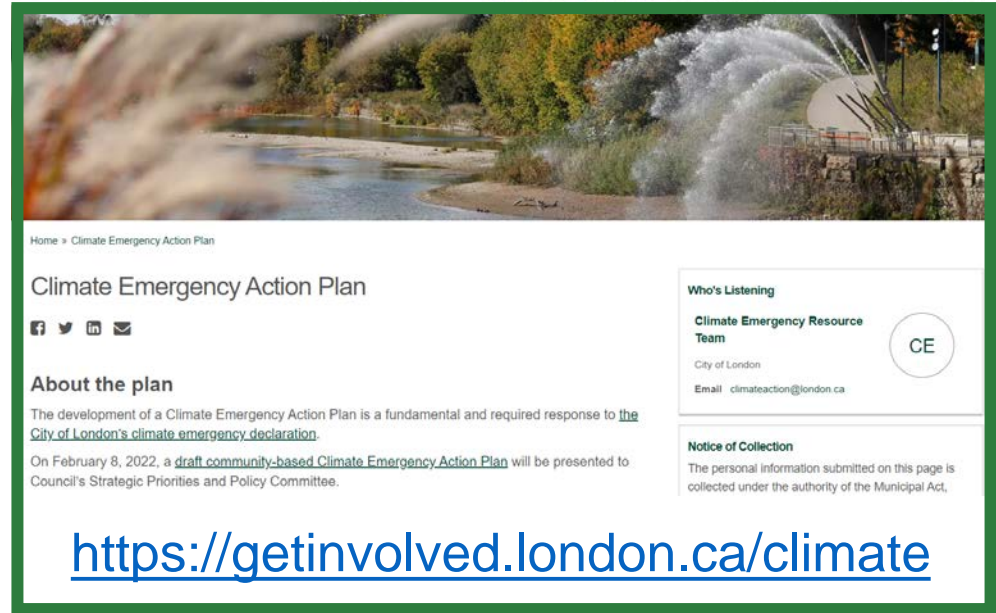
- Transportation and mobility
- Buildings and development
- Consumption and waste
- Protecting and enhancing natural areas

2. Engaging, inspiring and empowering people and organizations to act



CEAP – What does it look like?

- SPPC report
- Draft CEAP which includes 10 Areas of Focus and workplans



- 13 Background (Supporting) Documents
- Executive Summary – key question and answers (under development)

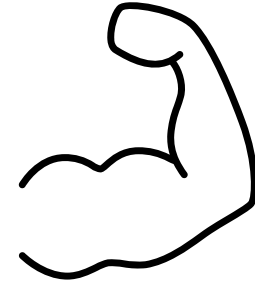


CEAP Goals

**1. Net Zero Emissions
by 2050**



2. Improved Resilience



3. Bring Everyone Along



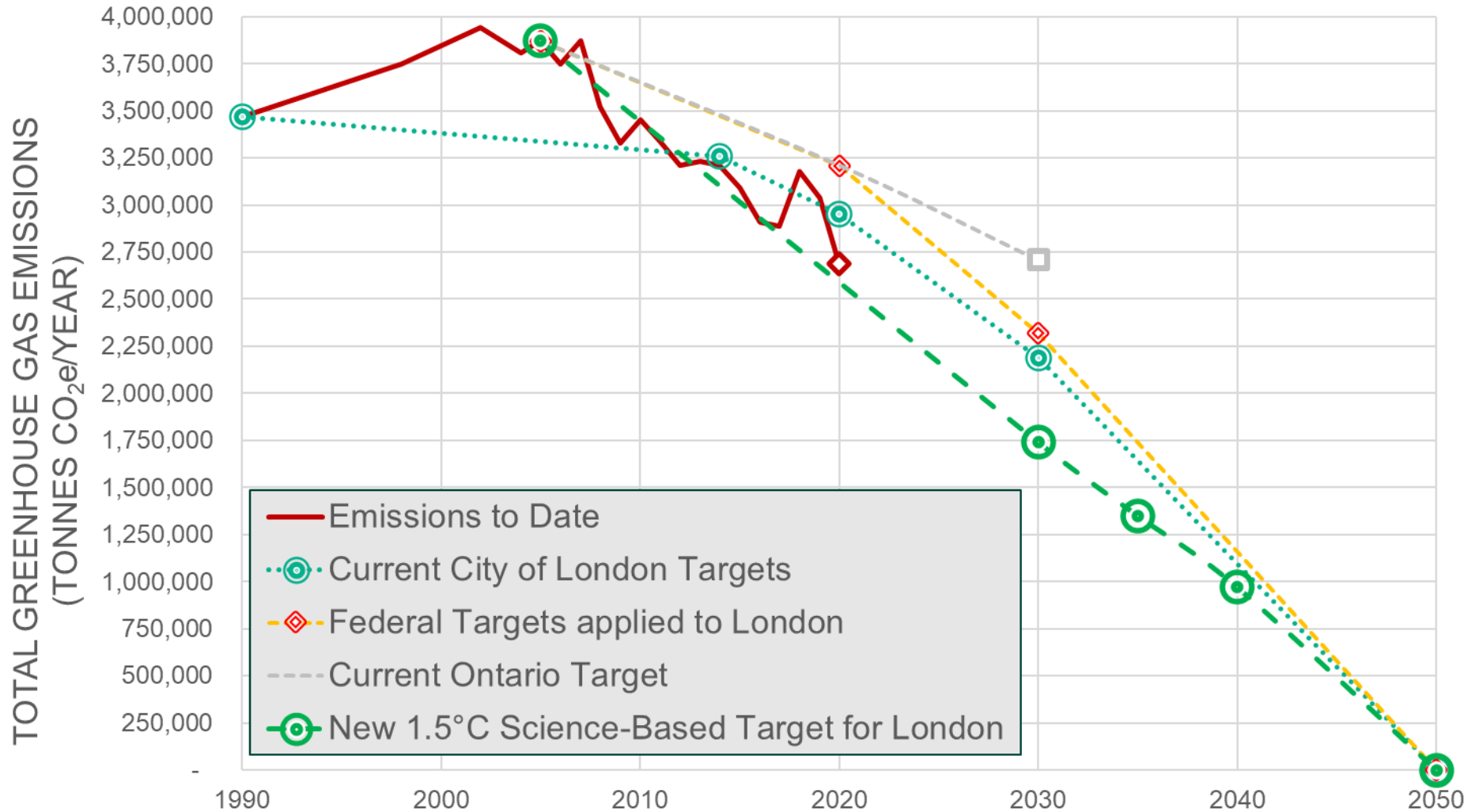
Proposed Science-based Community Milestone Targets

Target Applied to:	Progress at the End of 2020 (reduction from baseline year)	Existing Approved Targets (reduction from baseline year)	Proposed Milestone Targets (reduction from baseline year)
Community (2005 baseline year)	30%	43% by 2030	55% by 2030
			65% by 2035
			75% by 2040
		Net-Zero by 2050	Net-Zero by 2050

For 2030, this would require a city-wide reduction in annual emissions of about 1 million tonnes from 2020 or 1.25 million tonnes from pre-pandemic levels.



Proposed Science-based Community Milestone Targets



Proposed Science-based Milestone Targets (Community and Corporate)

Target Applied to:	Progress at the End of 2020 (reduction from baseline year)	Existing Approved Targets (reduction from baseline year)	Proposed Milestone Targets (reduction from baseline year)
Community (2005 baseline year)	30%	43% by 2030 Net-Zero by 2050	55% by 2030 65% by 2035 75% by 2040 Net-Zero by 2050
Corporate (2007 baseline year)	61%	60% by 2023 Net-Zero by 2050 or sooner	65% by 2030 75% by 2035 90% by 2040 Net-Zero by 2045

For 2030, this would require a city-wide reduction in annual emissions of about 1 million tonnes from 2020 or 1.25 million tonnes from pre-pandemic levels.



Cities Race to Zero Campaign

Big City Mayors recently highlighted the urgent need for climate action and declared support for the Cities Race to Zero Campaign (October 14, 2021); and the use of science-based targets. These Ontario cities have joined:

Ajax

Guelph

Ottawa

Brampton

Halton Hills

St. Catharines

Burlington

Hamilton

Toronto



Expected Results with 2030 Milestone Outcomes

<ul style="list-style-type: none">• Walkable, Complete Neighbourhoods	<ul style="list-style-type: none">• More Resilient Buildings and Infrastructure
<ul style="list-style-type: none">• Increased Active Transportation and Transit	<ul style="list-style-type: none">• More Carbon Capture
<ul style="list-style-type: none">• More Zero Emission Vehicles	<ul style="list-style-type: none">• Move Towards a Circular Economy
<ul style="list-style-type: none">• More Net-zero Buildings	<ul style="list-style-type: none">• Increased Community Resilience
<ul style="list-style-type: none">• Lower Carbon Construction	<ul style="list-style-type: none">• Increased Engagement on Climate Action



Areas of Focus and Workplans

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 and Workplans

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



Threaded Through Workplans

1. Community Engagement

- Need to be broader, deeper and more reflective of London

2. The Strength of Alignment

- Moving in the similar/same direction
- Multiple actions by many, at the same time
- Reduces duplication



Threaded Through Workplans

3. Business and Economic Opportunities; Research and Innovation

- Focus on people - local job creation
- Shifting and/or new business models
- Emerging and new technologies and solutions
- Working with academia on a focused plan for research, testing and action (living laboratory concept)



Threaded Through Workplans

4. Leveraging Approved Budgets and Programs

- Alignment with 2022/2023 approved budgets
- Prepare detailed Climate Change Investment and Implementation Plan (for future City projects and programs)
- Multi-year Budget processes
- Prepare and design for future provincial and federal investments



Foundational Actions (SPPC Appendix B)

17 actions to advance quickly to set the stage for actions that follow:

A Milestone targets

B Key implementation actions

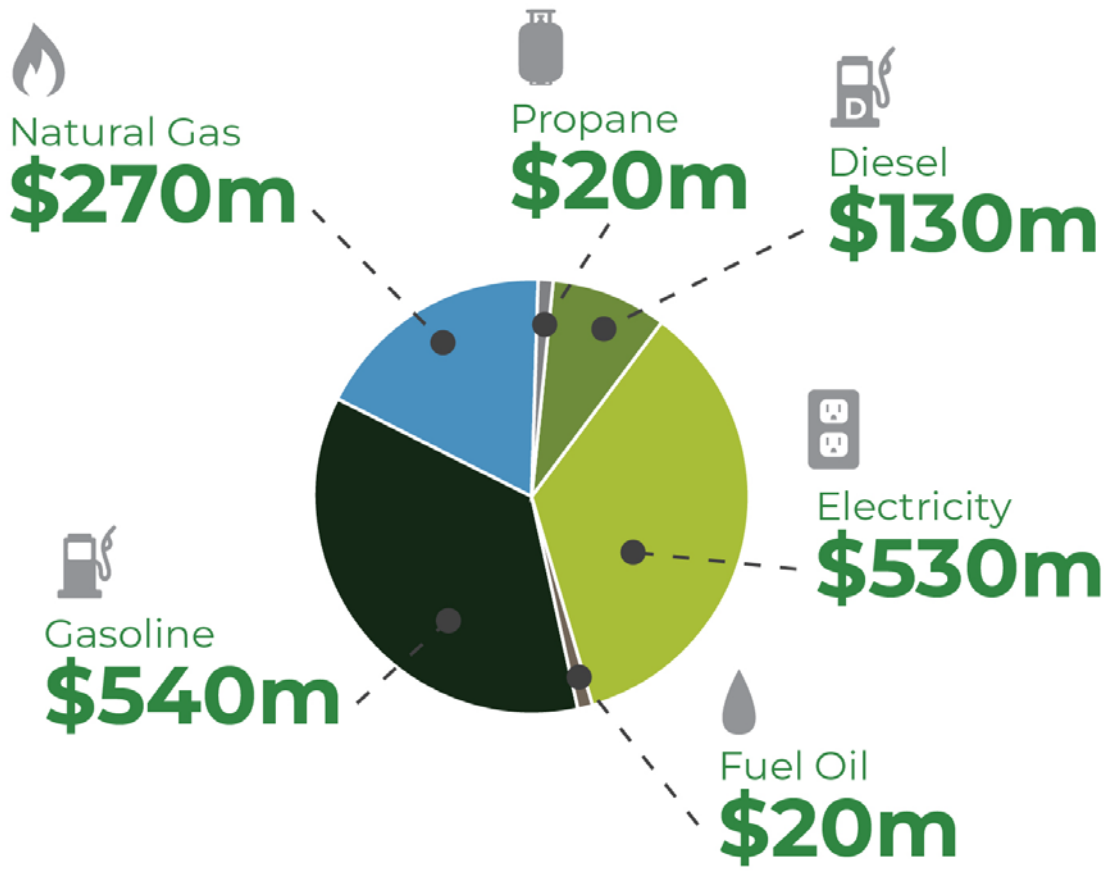
C Provincial and Federal government

D Financial and reporting



Community Energy Costs (2019)

\$1.5 Billion Spent



Choices and Opportunities:
85 to 90% of this amount leaves the local economy – need to shift!



Value and GHG Impact of Food Waste in London's Garbage



- \$450 to \$600 per household (\$80 to \$100 million/year) in avoidable food waste placed in the garbage



Choices and Opportunities:

- 10% reduction = \$8 to \$10 million saved locally
- GHG reduction potential local and global ~30,000 tonnes/year



Every household has a “menu of choices” to do their fair share by 2030



High income household of three in older single-family house, two vehicles

Current GHG emissions:
6.3 tonnes per person

Choices/actions include:

- 25% reduction in heat loss (e.g., more insulation)
- Cold-climate heat pump with gas back-up
- 1st vehicle 20% reduction in distance travelled
- 2nd vehicle switched to electric vehicle
- Reduction in organic waste

Based on today's choices, this household can reduce their emissions by 70% to do their fair share



Every household has a “menu of choices” to do their fair share by 2030



Low income, single-parent household of two in townhouse, transit user

Current GHG emissions:
2.7 tonnes per person

Choices/actions include:

- 20% reduction in heat loss (free from Enbridge Gas)
- Reduction in organic waste
- 72-hour emergency preparedness kit

Based on today's choices, this household can reduce their emissions by 26% to do their fair share



Next Steps

Timeframe	Item
February 8, 2022	SPPC meeting - table the draft Climate Emergency Action Plan, staff recommendations, foundational actions and presentation
February 2022	Receive written comments on the Get Involved website, via email, via mail
TBD	SPPC meeting including holding a public participation meeting (PPM)
TBD	Council meeting - approval to finalize Climate Emergency Action Plan



In Summary

Goals

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

A Few Key Words/Phrases

- Alignment
- Choices
- Collaboration
- Council decision points
- Leadership
- Learning
- Multi-year Budget process



SPPC Recommendations

- a) The draft Climate Emergency Action Plan **BE RECEIVED**;
- b) The draft Climate Emergency Action Plan Foundational Actions **BE RECEIVED**;
- c) The Background Information (Supporting Documents) to Develop the draft Climate Emergency Action Plan, **BE RECEIVED** for information; and
- d) Civic Administration **BE DIRECTED** to hold a public participation meeting at a future meeting of the Strategic Priorities and Policy Committee with respect to the draft Climate Emergency Action Plan.

