



Discussion Primer for the Climate Emergency Action Plan- 2020 (Appendix C) How We Live

The City is requesting that you and your organization review the list of potential actions and supporting actions for inclusion in the CEAP that has been provided in Climate Emergency Action Plan Actions for Discussion. Categorized actions with supporting actions have been collected to start discussions around how best to move London toward the goal of net-zero GHG emissions and improved resiliency from climate change.

The actions have been organized into the following pillars, which are borrowed and slightly modified from the extensive community engagement efforts undertaken to inform London’s Official Plan update starting in 2013. The Climate Emergency impacts most parts of life in London, so these categories are meant to be helpful for organizing our thinking during CEAP development:

How We Live	Helping Londoners respond to and prepare for climate change at home
How We Green	Building a greener city by protecting and increasing natural resources in the built and natural environment
How We Move	Supporting low/no emission transportation choices and a transportation network that makes London easy to get around through active transportation and transit and is connected to the region
How We Grow	Ensuring London becomes a mixed-use compact city using green development and redevelopment standards and incentives
How We Prosper	Ensuring a City that is prosperous, innovative and climate change resilient

The City is looking for feedback on:

- The perceived importance or significance of actions and supporting actions (e.g., how significant are these actions to your organization?)
- Supporting actions within the pillars that your organization can play a role in. Proposed roles taken on any of the supporting actions could be one of leadership, co-leadership, partnership or support.
- Other actions and/or supporting actions that your organization or others could support that would strengthen the CEAP.

Climate Emergency Action Plan Actions for Discussion

Action Types

Potential Actions and Supporting Actions are categorized based on the following action types:

- **Study or Studies:** To conduct research or strategic planning projects to establish direction on new or emerging areas of interest.
- **Policies:** To establish or update rules and regulations or to provide direction for projects, initiatives, or programs.
- **Procedures:** To develop and implement new ways of doing business or adapt existing practices and procedures to reduce GHG emission or build resiliencies.
- **Programs:** To continue or enhance ongoing activities in a core service area to reduce GHG emission or build resiliencies.
- **Projects:** To propose a one-time action to achieve specific outcomes to reduce GHG emissions or build resiliencies.
- **Pilot Projects:** To develop a “trial run” of an action, typically preceded by a feasibility study, that has the potential to become a future program for the City of London, but needs to be tested on a smaller scale.
- **Partnerships:** To collaborate with stakeholders (both internal and external) to advance climate action for the Corporation and in the community and advocate on behalf of the City to other levels of government to advance and support local climate action.

Ability to Implement

The estimated ability to implement each action has been characterized as either straightforward, reasonable or ambitious. These categories are intended to demonstrate the overall complexity involved with implementing each action at a high level.

Any action’s categorization doesn’t imply that all conditions of the category are met, but that the balance of issues surrounding the ability to implement place the action in the category (e.g. an action categorized as ambitious may require significant coordination across senior levels of government and significant disruptive change, but may not require significant or new investment; an action categorized as straightforward may have a strong investment payback and little individual behaviour change, but may require little technology change).

Ability to Implement	Description
Ambitious (A)	Significant Additional or New Investment No investment payback Significant Disruptive Change Significant Technology Change High level of coordination with Senior Governments Significant business behaviour change

	Significant Individual behaviour change
Reasonable (R)	Moderate Additional or New Investment Moderate investment payback Moderate Disruptive Change Moderate Technology Change Moderate coordination required with Senior Government Moderate business behaviour change Moderate individual behaviour change
Straightforward (S)	Little Additional or New Investment Strong investment payback Little Disruptive Change Little or No Technology Change Little coordination required with Senior Government Little business behaviour change Little individual behaviour change

Timing

The estimated timing for starting actions is identified as short-, medium-, or long-term and/or recurring as follows:

Icon/Text	Description	Detail
	Short Term	(1-3 years)
	Medium Term	(4-7 years)
	Long Term	(7+ years)
Recurring	Actions which happen on an ongoing basis	N/A

Potential Outcomes

In the tables below, the potential of GHG reduction actions and potential resiliency enhancement is identified as follows:

- 

Lower potential for GHG reductions (<1,000 tonnes per year)
- 

Medium potential of GHG reductions (1,000 to 10,000 tonnes per year)
- 

High potential for GHG reductions (> 10,000 tonnes per year)
- 

Lower potential for resiliency enhancement (e.g., lowers or avoids localized property damage or personal injuries)
- 

Medium potential for resiliency enhancement (e.g., lowers or avoids widespread property damage or personal injuries)
- 

High potential for resiliency enhancement (e.g., lowers or avoids widespread property destruction or loss of life)

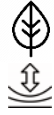
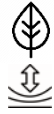
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The following table provides a high-level summary of the types of actions and outcomes likely required for London to achieve net-zero emissions by 2050 and to be resilient to future extreme weather events.

By 2030	By 2040	By 2050
Replacement heating systems will be net-zero energy/emission At least 10% of existing housing will be net-zero energy/emission At least 10% of existing housing will have extreme weather resiliency At least 50% of existing multi-family buildings will have "shelter-in-place" capabilities 75% diversion and recovery rate from landfill for household waste	At least 50% of existing housing will be net-zero energy/emission At least 50% of existing housing will have extreme weather resiliency All multi-family buildings will have "shelter-in-place" capabilities 80% diversion and recovery rate from landfill for household waste	All housing will be net-zero energy/emission buildings All housing will have extreme weather resiliency 90% diversion and recovery rate from landfill for household waste

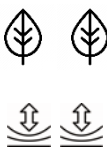
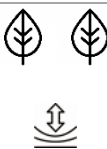
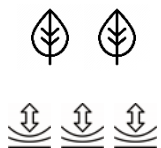
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Action #1: Provide ongoing education and engagement on the necessity for community-wide action on the climate emergency.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-lead	Partner/Supporter
1-1	Continue to provide Londoners with the latest information on local greenhouse gas emissions and the expected impacts of climate change	Program			S	City	
1-2	Work with community partners to develop tools and resources to help Londoners and London businesses identify their contributions to greenhouse gas emissions and prepare for extreme weather events	Partnerships			S	City	City
1-3	Work with community partners to develop means to recognize those Londoners and London businesses who are providing local leadership on climate action	Partnerships			S	City	City

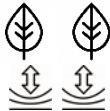
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Action #2: Support and facilitate energy conservation, energy efficiency, renewable energy, and major energy retrofits of residential buildings.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-lead	Partner/Supporter
2-1	Work with community partners to develop programs that engage London homeowners on energy conservation, energy efficiency, and renewable energy climate actions	Partnerships			R	City	
2-2	Work with energy utilities on promoting existing and innovative new energy conservation programs, including fuel-switching opportunities	Partnerships			R	City	
2-3	Develop and test a program for the use of Local Improvement Charges for funding major energy retrofits and climate adaptation measures for single family properties as well as multi-family buildings	Pilot Project			R	City	
2-4	Work with energy utilities to promote low/zero emission backup power and/or energy storage systems to power essential services for residential buildings so they may act as a safe haven for residents to shelter-in-place in the event of loss of power from the electricity grid.	Partnerships			A	City	

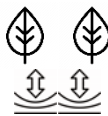
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Action #3: Support and develop collaborative approaches to end energy poverty.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
3-1	Work with community partners to develop programs that promote and encourage existing and new energy utility low income support programs	Partnerships			R		City
3-2	Explore municipal options for establishing minimum energy efficiency requirements for rental properties	Study			S	City	
3-3	Develop and test a program for the targeted use of local improvement charges (LICs) and/or Community Improvement Plans (CIPs) for funding major energy retrofits and climate adaptation measures for lower-income single family properties as well as multi-family buildings	Pilot Project			R	City	

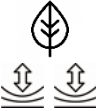
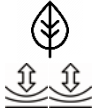
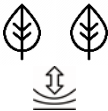
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Action #4: Support and encourage resource and waste management initiatives for London households.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
4-1	Implement waste diversion and minimization activities as per the 60% Waste Diversion Action Plan	Plan			R	City	
4-2	Continue to work with community partners to implement food waste reduction initiatives	Partnerships			S	City	
4-3	Work with partners to develop tools and resources to help Londoners reduce their resource and material consumption and move towards a circular economy versus waste disposal (e.g., focus on local economy, projects such as the London Waste to Resources Innovation Centre)	Partnerships			R	City	
4-4	Explore opportunities to support equipment share co-op and shared ownership models for common equipment in residential communities	Partnerships			S	City	

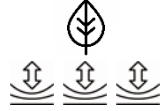
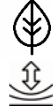
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Action #5: Support and encourage urban agriculture and strengthen local food systems.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
5-1	Work with partners to develop tools and resources to help Londoners grow their own food	Partnerships			S		City
5-2	Continue to implement and promote the Urban Agriculture Strategy	Partnerships			S/R	City	
5-3	Promote and support Middlesex London Health Unit and community partners championing climate-friendly diets	Partnerships			S		City

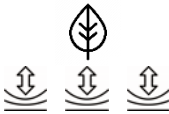
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Action #6: Assess and establish strategy to improve residential neighbourhood climate resilience.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
6-1	Work with partners to develop, design and promote the benefits of neighbourhood climate resilience including how to prepare for extreme weather events	Partnerships			R	City	
6-2	Review and expand existing City downspout disconnection, sump pump & sewer backflow valve programs	Programs, Projects, Pilot Projects			R	City	
6-3	Identify, communicate and promote homeowner-lead climate resilience improvements (e.g., hurricane clips, basement window well upgrades, grade adjustment for drainage, etc.)	Procedure			S	City	
6-4	Revise the Vital Services Bylaw to address changed heating and cooling requirements in apartment buildings due to the changing climate	Procedure			R/A	City	

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Action #7: Work with the Middlesex London Health Unit to improve human health resilience to climate change impacts.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
7-1	Support the Middlesex London Health Unit in implementing recommendations from the <i>Assessment of Vulnerability to the Health Impacts of Climate Change in Middlesex-London</i> report (2014)	Partnerships			S		City
7-2	Work with the Middlesex London Health Unit to review and update the human health impacts of climate change	Partnerships			S		City