



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

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)

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.

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

By 2030	By 2040	By 2050
At least 50% of new light-duty vehicles sold in London are electric All new buildings provide charging stations for electric vehicles and bikes At least 10% fewer personal vehicles per capita than 2020 At least 20% of daily trips made by transit At least 15% of daily trips made by walking & biking No more than 60% of daily trips made by personal vehicles All transit vehicles are zero-emission vehicles All vehicles-for-hire are zero-emission vehicles At least 25% of heavy-duty vehicles and off-road equipment are zero-emission At least 5% of inter-urban trips made by passenger rail or bus All new roads built using low-impact development stormwater management practices	All new light-duty vehicles sold in London are electric At least 30% fewer personal vehicles per capita than 2020 At least 30% of daily trips made by transit At least 25% of daily trips made by walking & biking No more than 40% of daily trips made by personal vehicles At least 50% of heavy-duty vehicles and off-road equipment are zero-emission At least 25% of inter-urban trips made by passenger rail or bus At least 50% of existing roads built using low-impact development stormwater management practices.	All light-duty vehicles in London are electric At least 50% fewer personal vehicles per capita than 2020 At least 40% of daily trips made by transit At least 35% of daily trips made by walking & biking No more than 20% of daily trips made by personal vehicles All heavy-duty vehicles and off-road equipment are zero-emission At least 50% of inter-urban trips made by passenger rail or bus All existing roads built using low-impact development stormwater management practices

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.

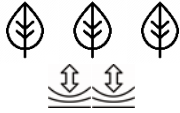
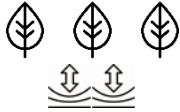
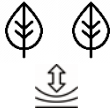
Action #1: Accelerate the expansion and improvement of active transportation infrastructure.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
1-1	Accelerate the expansion of the City-wide shared use off-road pathway system (e.g., Thames Valley Parkway) system	Partnerships			R/A	City	
1-2	Develop and deploy publicly accessible secure bike storage facilities in major destinations (e.g., Downtown London, Old East Village, and along the higher-order transit corridors, etc.)	Program, Projects, Pilot Projects			R	City	
1-3	Establish requirements for new commercial and multi-family buildings to provide secure bike storage facilities for their tenants	Procedure			R	City	
1-4	Accelerate completion of a connected, city-wide all ages & abilities (AAA) cycling network as provided in the City's Cycling Master Plan.	Programs and Projects			R/A	City	
1-5	Ensure that all residential streets have dual-side sidewalks, as required for street (re)development (as per LP349), in a manner that preserves existing street boulevard trees	Procedure, Programs and Projects			S/R	City	

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
1-6	Revise winter maintenance practices to place a higher service level for snow and ice clearing on sidewalks, transit stops, and AAA cycling infrastructure	Procedure			R/A	City	

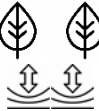
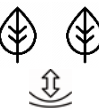
How We Move: Supporting low/no emission transportation choices and a transportation network that makes London easy to get around through active transportation and transit and is connected to the region.

Action #2: Expand and improve public transit service, including higher-order transit.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
2-1	Convert 100% of LTC's bus fleet to zero-emission vehicles (based on study results, LTC approval and City approval)	Study Partnerships			R/A	LTC	
2-2	Implement a network of higher-order transit and high-frequency express bus routes as envisioned as part of the City's Transportation Master Plan	Program			R/A	City LTC	
2-3	Establish transit priority lanes and other on-road prioritization measures to support higher-order transit and high-frequency express bus routes	Program			R/A	City	
2-4	Identify and implement first/last mile connectivity solutions for under-served areas, with a focus on active transportation	Pilot Project			R	City LTC	

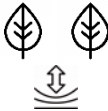
How We Move: Supporting low/no emission transportation choices and a transportation network that makes London easy to get around through active transportation and transit and is connected to the region.

Action #3: Encourage and incent increased active transportation, public transit use & transportation demand management as envisioned by the City's Transportation Master Plan and Cycling Plan.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
3-1	Provide support for micro-mobility (e.g., e-scooter/bike share) service(s)	Partnerships			R	City	
3-2	Establish a Transportation Management Association(s) for London employers to promote telework, bike/walk to work, transit, carpooling	Programs			S/R	City	
3-3	Develop programs to attract new riders to public transit	Programs			R	LTC	City
3-4	Support implementation of gateway parking and transit connection(s)	Partnerships			R	City	
3-5	Explore the use of time-specified car-free periods in high-volume pedestrian areas such as Dundas Place and/or school zones	Pilot Project			S	City	

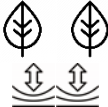
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Action #4: Reduce freight traffic load on secondary and tertiary roads.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
4-1	Create a Goods Movement Strategy to foster a safe, convenient, efficient, multi-modal, sustainable, and integrated goods movement transportation system	Study/ Partnerships			R/A		
4-2	Encourage and support the use of zero-emission delivery services	Partnerships			S		

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.

Action #5: Advocate for higher frequency and reliable regional transportation connections.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
5-1	Advocate for a regional transportation system that supports London as a regional transit hub and provides frequent and reliable connections to the Greater Toronto Area, Waterloo Region and Windsor-Detroit	Partnerships		---	A		

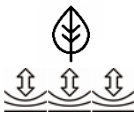
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Action #6: Encourage and support zero emissions vehicle and electric bicycle (e-bike) adoption.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
6-1	Revise the Vehicle-for-Hire By-Law to mandate the use of hybrid, electric, or other zero-emission vehicles	Procedure			R	City	
6-2	Provide public electric vehicle and e-bike charging at major community facilities	Program			R	City	
6-3	Establish minimum electric vehicle and e-bike charging requirements for new multi-family and commercial buildings	Policy			R	City	

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Action #7: Improve resilience of transportation infrastructure.

Supporting Actions		Action Type	Potential Impacts	Timeline	Ability to Implement	Responsibilities	
						Lead/Co-Lead	Partner/Support
7-1	Explore the use of roadway construction materials and practices that are more sustainable and tolerant to climatic conditions as well as reduce the urban heat island effect	Study			S	City	
7-2	Explore the use of technical reviews and assessments for major projects to ensure that infrastructure is built to be resilient and sustainable over its lifespan	Procedures			S/R	City	
7-3	Increase incentives for the adoption of LIDs and permeable materials (public and private lands) for improved stormwater management of transportation infrastructure (e.g. changes to the stormwater rate structure)	Procedures			R/A	City	
7-4	Review flooding potential on roads (slope and topography) with a focus on primary roads and emergency routes	Study			S	City	