

Climate Emergency Action Plan

April 2022

Actions at a Glance



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Note to Reader

Purpose of this Document

This 'Actions at a Glance' document is a compilation of Key Actions and Milestones listed in each of the ten Areas of Focus workplans found in Appendix A in the Climate Emergency Action Plan (CEAP). This document has been created to help identify the initial actions to be undertaken to reduce greenhouse gas emissions and make London more resilient to climate change.

The description of each Area of Focus, ties to expected results, background information, actions to date, responsible City Service Area(s), key community partners and stakeholders, examples of measuring progress and additional resources for each Area of Focus are available within the complete CEAP document.

Climate Emergency Action Plan

The development of the CEAP started in January 2020. All reports are found on the City of London's [Get Involved website](#) including the most recent ones:

- February report to the Strategic Priorities and Policy Committee, a Standing committee of Council;
- April SPPC report for acceptance of the plan
- Climate Emergency Action Plan;
- 13 Background Information (Supporting Documents); and
- A Question & Answers (Q&A) summary document.

The CEAP document serves several different purposes, including providing:

- The status of climate change in London, actions taken and the rationale for increasing actions immediately;
- New milestone community and Corporate targets and the rationale;
- 10 implementation workplans covering the majority of aspects of mitigation and adaptation (Areas of Focus) pertinent to London;
- The level of effort and example actions required for different household types to do their "fair share" of greenhouse gas reduction by 2030.
- Key requirements for implementation success; and
- Leadership needs.



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Area of Focus 1 – Engaging, Inspiring and Learning from People

1. Leveraging work being done to support other major projects, convene and co-create a community-led, City-supported group to extend the reach of the CEAP into the community and further inform and support climate action in London. Before the first phase of broad implementation of the CEAP begins, City staff and partners will focus on networking and strengthening community connections. As per best practices, it is recommended that the community co-designs the engagement framework and participates in a ‘task force’. To do this, staff will:
 - a. Leverage existing structures (e.g., advisory committees, third-party organizations with established community networks) to ensure a range of perspectives and experiences are leveraged throughout the process.
 - b. Working with other major initiatives and service areas, and in partnership with London’s Community Diversity and Inclusion Strategy (CDIS) leadership and its working groups to develop, review and implement engagement plans that improve the inclusion of all Londoners.
 - c. Ensure representation from Indigenous people, Black people and other equity-deserving groups on the workplan project team and ensuring the expanded project team provides a range of lived experience.
 - d. Identify existing and historical engagement barriers as community connections are made, and form plans to remove/address them proactively.
 - e. Clearly define where each task lands on the [spectrum of public participation](#) as presented by the International Association for Public Participation ([IAP2](#)) [Equitable Engagement Best Practices](#) and to ensure there is a mutual understanding between practitioners, decision makers and the community about how input and ideas will be used.
2. Convene and co-create a business and institution-led group to extend the reach of the CEAP into the business community, further inform and support climate action in London, and focus on local and regional economic development opportunities small and large. A key focus of this group would include:
 - a. creating the ‘business case for climate action’
 - b. supporting local business and the economy

- c. increasing the percentage of energy expenditures in the local and regional economy
 - d. aligning CEAP actions and other related plans, where possible, to support local business planning, actions and future growth including sustainable purchasing practices, local economic development and supporting the circular economy
3. Seek input from partners, institutions, businesses, and Londoners on where efforts should be allocated to empower community and individual action as part of revisions and updating of the Climate Emergency Action Plan. This may include requesting expressions of interest from organizations to address common challenges that will lead to lower community-wide emissions and improved resilience
 4. 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.
 5. Work with community partners to develop means to recognize those Londoners and London businesses who are providing local leadership on climate action
 6. Continue to provide Londoners with the latest information on local greenhouse gas emissions and the expected impacts of climate change
 7. Facilitate the creation of partnerships with businesses, community organizations, non-profits and others to advance climate action in the community, where possible.
 8. Maintain an engagement portal to ensure that Londoners have a place to provide feedback. This feedback will be reviewed, analyzed and referenced as part of upcoming revisions to the CEAP.
 9. Work with community partners to develop methods to receive input and feedback on a more frequent basis to capture new ideas, improved ideas, innovative ideas and solutions to reduce GHG emission and make London more resilient including any processes needed to support this action.

Area of Focus 2 – Taking Action Now (Household Actions)

1. Home Energy Retrofits (Timeline: 2022 - 2024)

- a. Work with community partners to engage London homeowners on energy conservation, energy efficiency, and renewable energy climate actions
- b. Work with energy utilities to ensure all residents are aware of existing conservation programs, including options for a 'one window' information source for residents combining information from all local utilities together
- c. Work with energy providers on developing new and innovative energy conservation programs, including fuel-switching opportunities
- d. Finalize and present program design options for an FCM-funded home energy retrofit pilot project for launch in 2023, involving about 50 homes per year for three years, based on similar programs in place in Ottawa, Toronto, and other Ontario cities in 2022. Report back to Committee and Council on final pilot project design to obtain final approval. Reporting would occur at the mid-point of the pilot project and after completion including the next steps based on the findings.

2. Transportation and Mobility (Timeline: 2022 - 2024)

- a. Continue to work with community partners (e.g., MLHU, London Cycle Link, etc.) to engage Londoners on walking, cycling, transportation choices such as carpooling, transit use, and intercity bus/rail travel

3. Zero Emission Vehicles and Equipment (Timeline: 2022 - 2024)

- a. Work with community partners to promote existing provincial and/or federal programs that engage Londoners on adopting electric vehicles
- b. Review and provide options to reduce, restrict, or phase out fossil fuel consuming equipment (e.g., lawnmowers, trimmers, leaf blowers) by completing a study of emerging best practices, applicable legislation and jurisdiction, costs and benefits, potential incentive programs, and other factors (report back in 2023)

4. Addressing Energy Poverty (Timeline: 2022 - 2024)

- a. Work with community partners to assist lower income Londoners with existing household energy conservation and efficiency measures (e.g., energy utility low-income support programs) and mobility (e.g., bicycle donation programs)
- b. Work with community partners to develop new programs that assist lower income Londoners with household energy conservation and efficiency measures (e.g., additional home energy retrofits) and mobility (e.g., discounted micromobility service fees)

5. Waste Reduction and Diversion (Timeline: 2022 - 2024)

- a. Continue to work with community partners to implement waste reduction and diversion initiatives for households.

6. Urban Agriculture (Timeline: 2022)

- a. Continue and grow the work of the Urban Agriculture Strategy to develop tools and resources to help Londoners grow their own food through community gardens or at-home gardening programs.
- b. Promote, support and help grow Middlesex London Health Unit, Middlesex-London Food Policy Council, and community partners encouraging climate-friendly diets and food choices (e.g., buying foods grown or produced locally)

7. Climate Resilience (Timeline: 2022 – 2024)

- a. Continue to promote on-property stormwater management improvements for homeowners (e.g., property grading, placement of sheds, decks, and pools, minimizing hard surfaces, maximizing tree cover, rain gardens, etc.)
- b. Review effectiveness of existing City sump pump & sewer backflow valve incentive fund programs for homeowners.
- c. Promote climate resilience improvements for homeowners (e.g., hurricane clips, basement window well upgrades, grade adjustment for drainage, etc.)
- d. Work with energy utilities to promote low/zero emission backup power and/or energy storage systems to power essential services for residents to shelter-in-place in the event of loss of power from the electricity grid.
- e. Increase public awareness of flood risk and evacuation protocols for properties within the floodplain or flood-prone areas to support emergency preparedness.

8. Household Climate Change Action Information (Timeline: 2022 onward)

- a. Work with community and business partners to continue to develop and compile details and information that will help households make decisions on climate action and ensure this information is promoted and easily accessible.

Area of Focus 3 – Transforming Buildings and Development Workplan

1. Advancing Partnerships for Action with London's Development Industry (Timeline: 2022 – 2025)

- a. Establish a shared understanding of the challenge and shared commitment from the City of London and the development and building industries to address climate change
- b. Collectively compile a list of hurdles and/or roadblocks preventing (or perceived to be preventing) more energy efficient and resilient development
- c. Identify shared actions that will assist the development industry in overcoming existing and perceived hurdles and/or roadblocks preventing more energy efficient and resilient development
- d. Establish objectives, metrics and timelines that will result in reduced GHG emissions, reduced carbon intensity of materials, and improved resilience to local climate change impacts from new development and buildings

2. Addressing New Developments (Timeline: 2022 – 2025)

- a. Reduce or eliminate parking minimums within the Zoning by-law
- b. Review and provide options to reduce, restrict, or phase out fossil fuel as the primary source of heat in all new buildings in London as of 2030 including a review of other municipalities, applicable legislation and jurisdiction, implementation benefit, and other factors
- c. Incorporate the detailed review of intensification targets, permitted heights, and other measures of intensity in relation to growth trends and climate change mitigation and adaptation as part of the 5-year comprehensive Official Plan review
- d. Review and incorporate climate change considerations into development application reviews, such as development-specific transportation demand management and energy management, including presentation of proposed development alignment with London's climate action goals and outcomes in staff reports

- e. Revise the Design Specifications and Requirements Manual to ensure climate change considerations are included
- f. Integrate climate change considerations into the Development Charges Background Study and associated growth infrastructure master plans
- g. Review options to encourage or mandate EV charging in new development
- h. Review and strengthen secure bike parking and storage in new development within the Zoning By-law
- i. Review and strengthen requirements for pedestrian, transit, and bike network access within the Zoning By-law
- j. Assist London Hydro as they continue to actively support GHG reduction projects such as new Net Zero communities

3. Addressing Existing Buildings (Timeline: 2022 – 2025)

- a. Review opportunities for a targeted use of local improvement charges (LICs), Community Improvement Plans (CIPs) or other methods for funding major energy retrofits and climate adaptation measures for multi-family residential buildings
- b. Review and provide options for purpose-developed CIPs for energy upgrades for buildings
- c. Advocate for Federal and Provincial incentives for building retrofits
- d. Encourage uptake of energy utility conservation programs and incentives for building energy retrofits
- e. Review and provide options to establish energy efficiency standards for residential rental properties including a municipal scan of applicable property related by-laws, applicable legislation and jurisdiction, implementation benefit, and other factors
- f. Review and provide options to establish temperature control requirements in property related by-laws to address extreme weather conditions including a review of other municipalities, municipal scan of applicable property related by-laws, applicable legislation and jurisdiction, implementation benefit, and other factors
- g. Review and provide options to establish requirements for “shelter-in-place” emergency power for high-rise, multi-unit residential buildings including a municipal scan of applicable legislation and jurisdiction, implementation benefit, and other factors

- h. Assist London Hydro as they continue to invest in local electricity distribution infrastructure to reduce power system losses including rebuilding 4kV infrastructure using modern 27.6kV technology

Area of Focus 4 – Transforming Transportation and Mobility

1. Mobility Master Plan (Timeline: 2021 - 2024)

- a. Update Committee and Council on direction for the Mobility Master Plan (MMP) (November/December 2021)
- b. Launch MMP including community engagement, internal City teams and technical consulting team including comprehensive workplan for activities, analysis, feedback and reporting to Committee and Council.

2. Additional Active Transportation Actions (Timeline: 2022 - 2024)

- a. Continue to implement active transportation infrastructure including sidewalks and cycling infrastructure in renewal, growth and standalone projects.
- b. Continue to seek funding from senior levels of government for new bike infrastructure
- c. Continue to support the Active and Safe Routes to School Program.
- d. Review and provide options for alternative municipal funding sources to support new active transportation infrastructure and programming such as the introduction of a new fee for overnight on-street parking permits, increasing parking rates at municipally controlled parking stalls, and/or a new parking levy on owners of commercially owned parking stalls
- e. Review and provide options for winter maintenance practices to place a higher service level for snow and ice clearing on sidewalks, transit stops, and cycling infrastructure, including the relationship between winter maintenance standards and mode choice and life cycle cost implications.
- f. Review and determine types and appropriate level of support for micro-mobility (e.g., bike share) services
- g. Explore and test the use of time-specified car-free periods in high-volume pedestrian areas such as Dundas Place
- h. Finalize and implement a city-wide bike parking plan, including neighbourhood bike parking and secure bike parking services

- i. Use Cycling Performance Measures to track the progress and use of cycling infrastructure, supports and programs
- j. Assess options for “quick build” cycling infrastructure safety improvements to existing on-road cycling infrastructure (e.g., curb stops along bike lanes)

3. Additional Transit Actions (Timeline: 2022 - 2024)

- a. Continue to implement priority rapid transit projects as per Council direction and Investing in Canada Infrastructure Program funding
- b. Continue to support the annual service improvements to the conventional and specialized transit services
- c. Review and provide options for integrating micro-mobility (e.g., bike share) services for first/last mile travel on public and/or private property
- d. Develop and promote programs to retain existing riders and attract new riders to public transit
- e. Support development of gateway parking and transit connection(s) (e.g., Park and Ride)
- f. 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

4. Transportation Management Association (Timeline: 2022)

- a. Establish a Transportation Management Association (TMA) for London employers to support and encourage employees to commute by walk/bike, transit, carpool, and support remote work options.

5. Encourage Zero Emission Vehicles (Timeline: 2022 - 2025)

- a. Develop a plan to convert 100% of LTC’s bus fleet to zero emission vehicles, based on CUTRIC study results, LTC approval and City approval
- b. Assist London Hydro as they actively work with London Transit and their consultant on the electrification of transit and the development of rapid transit routes
- c. Develop an electric mobility plan for London including:

- i. Increase public charging stations, parking arrangements, options for local incentives and other ideas to increase the use of EVs, e-bikes and similar options
 - ii. Encourage and support the use of zero emission delivery services
 - iii. Encourage and support the use of zero emission car-share services
 - iv. Review and provide options for the Vehicle-for-Hire By-Law to mandate the use of electric vehicles or other zero emission vehicles including municipal fleet, applicable jurisdiction, implementation benefit, and complexity analysis
 - v. Review and provide options for encouraging the adoption and use of electrically assisted bicycles
 - vi. Grow the network of public electric vehicle and e-bike charging stations at major community facilities
 - vii. Assist London Hydro with their regular review of trends in the EV market to ensure the local electricity distribution system can meet emerging demands due to the electrification of vehicles and fleets
- d. Complete the strategy for connected and automated vehicles that discourages zero-occupancy use, encourages shared ownership/service models, complements London's public transportation system, prioritizes active transportation road users' safety, and uses zero emission vehicles
 - e. Work with London Hydro to test smart grid strategies such as EV-to-grid (power storage) and EV-to-home (emergency power)
 - f. Work with Enbridge Gas to promote solutions for 'hard to electrify' diesel vehicles in the community such as heavy-duty construction equipment and vehicles, such as compressed natural gas, renewable natural gas, or hydrogen to power these vehicles.

6. Expand By-law Enforcement Opportunities (Timeline: 2022 - 2023)

- a. Review and provide options for using the Administrative Monetary Penalty System to allow the use of private video evidence to report by-law infractions such as idling vehicles, parking in bike lanes, parking in accessible parking spots, and blocking access to electric vehicle charging stations.

7. Low Impact Design (Timeline: 2022 - 2023)

- a. Continue to review and provide options for alternative road designs that preserve existing mature street trees when roadway reconstruction projects are initiated
- b. Prioritize the importance of street trees in providing shade for pedestrians.
- c. Continue to review projects for climate change adaptation and low impact development opportunities.

8. Review Existing City Plans (Timeline: 2022 - 2023)

- a. Review existing City plans to reconcile previously established policy areas that may now conflict with the Climate Emergency Action Plan.

Area of Focus 5 – Transforming Consumption and Waste as Part of the Circular Economy Workplan

1. Implement 60% Waste Diversion Action Plan (on-going)

a. Focus – Food Waste Avoidance

- i. Continue to work with community partners and business partners to implement food waste reduction initiatives
- ii. Develop and implement feedback information that highlights the connection between cost savings, food security, social aspects, climate change and other environmental factors
- iii. Finalize focused Food Waste Avoidance implementation plan as a lead to the Green Bin Plan

b. Focus – Green Bin Program

- i. Finalize Green Bin materials to collect, household containers and processing
- ii. Finalize implementation plans (phased approach) to transition curbside collection from the current system to weekly Green Bin/Blue Box and bi-weekly garbage pickup
- iii. Finalize stages of outreach program for phased implementation

c. Focus – Textiles and Other Reusables

- i. Update 2018 information and prepare draft implementation plans
- ii. Identify key partners, determine needs and requirements and finalize implementation plans and schedules

d. Focus – Other Actions

- i. Determine next materials and actions to focus on as currently listed in the 60% Waste Diversion Action Plan

2. Growing the Circular Economy in London and Area (Timeline: 2022 – 2025)

- a. Support and promote London businesses playing a role in developing local and regional circular economy solutions
- b. Develop steps and actions required to understand the existing state of London and area's socio-economic and policy context as it relates to the circular economy
- c. Hold a workshop or similar activity to determine community, business, local government, academic and Indigenous communities' interest in growing a local circular economy
- d. Develop a framework for moving forward, including the prioritization of the growth of the Circular Economy in London's economic development strategy
- e. Obtain approval for items that require Council direction

3. Long-term Resource Recovery Plan (Timeline: 2022-2023)

- a. Finalize current opportunities for advanced resource recovery and increased waste diversion through new, emerging and next generation technologies and where these technologies may play a role in London and area
- b. Finalize climate change impacts, areas to reduce or maintain current costs of City programs; ways in which to support local job creation efforts; and ways in which to maximize program convenience to Londoners
- c. Ensure plan aligns with Provincial direction and the *Waste Free Ontario Act, 2016*

4. Active and Closed Landfill Management - Renewable Energy and Emissions (2022 – 2025)

- a. Finalize current and future opportunities for the production of renewable natural gas (RNG) from landfill gas collected at the W12A landfill as well as other potential biogas feedstocks (e.g., organic waste, biosolids from wastewater treatment)
- b. Update and complete the procurement process for RNG at W12A Landfill and report to Committee/Council on outcomes and next steps
- c. Research and report back on options for reducing fugitive emissions of methane from closed landfill sites as well as the W12A landfill (i.e., gas that escapes capture from the existing landfill gas collection wellfield)

- d. Review and report back on options to use closed landfill sites as well as sections of the W12A Landfill site (or near-by City-owned property) for use as large-scale ground-mounted solar PV power generation

Area of Focus 6 – Implementing Natural and Engineered Climate Solutions and Carbon Capture

1. Addressing Agricultural Potential (Timeline: 2022 – 2025)

- a. Assess London's potential for carbon sequestration in soils with regenerative agriculture practices
- b. Establish program(s) in consultation with agricultural stakeholders to remove barriers and increase the adoption of regenerative agriculture practices
- c. Extend invitation to local Indigenous Communities to engage and explore potential collaboration on regenerative agricultural land stewardship
- d. Work with partners to develop and test the reforestation of under-utilized agricultural land, or portions thereof, outside of the urban growth boundary but within city limits.

2. Advancing Tree Planting (Timeline: 2022 – 2025)

- a. Assess available options to estimate London's current carbon sequestration rate from urban forests and other natural areas as part of the Urban Forest Strategy and other City initiatives
- b. Review tree planting policies and budget(s) for planting on City lands held by City Service Areas, boards, and commissions according to a planting prioritization strategy
- c. Promote and engage with Londoners regarding planting trees on private lands as part of the Tree Planting Strategy
- d. Facilitate a showcase project, and/or roll out more projects, to retrofit hardscaped/paved surfaces (e.g., surface parking lots) with raingarden and other sustainable designs, including mid-to-long-term tree planting for increased canopy cover

3. Protect and Enhance Existing Natural Areas (Timeline: 2022 onward)

- a. Ensure the protection of natural heritage features and areas in the zoning by-law, Tree Protection by-law and Site Alteration by-law

- b. Complete and enforce revised Environmental Management Guidelines for new development
- c. Explore potential for striving to achieve 'no net loss' carbon sequestration capacity requirements for greenfield development
- d. Enhance the resiliency and connectivity of the natural heritage System through ecological restoration with a focus on potential naturalization areas (including those identified on London Plan Map 5 - Natural Heritage)

4. Carbon Capture, Utilization, and Storage (Timeline: 2024 onward)

- a. Work with Enbridge Gas to assess the feasibility and suitability of using carbon capture, utilization and/or storage solutions for large industrial natural gas users in London
- b. Work with Western University and others to assess the feasibility and suitability of using large-scale direct air carbon capture in London to contribute towards achieving net-zero emissions
- c. Explore and engage with community and industry partners to identify and evaluate local offset opportunities

Area of Focus 7 – Demonstrating Leadership in Municipal Processes and Collaborations

1. Utilizing the Climate Lens Process (Timeline: 2022 onward)

- a. Implement and monitor the use and effectiveness of the climate lens process in all Service Areas
- b. Consider options to incorporate future carbon prices, equivalent at a minimum to the federal carbon pricing up to 2030 (i.e., \$170 per tonne by 2030) and an additional \$10 per tonne per year beyond 2030 within the 2024-2027 Multi-Year Budget and future budget processes.
- c. Include a section in all standing committee reports identifying climate considerations and how they have been addressed, where appropriate
- d. Provide annual updates on the use and utility of the Climate Lens Process

2. Engaging City of London Employees (Timeline: 2023-2025)

- a. Review City of London employee commuting and parking policies to incent reduced GHG emissions (e.g., address incentives to drive alone and facilitate other options with bus passes, bike share, etc.)
- b. Update employee engagement activities within the Corporate Energy Conservation and Demand Management Plan to align with the new corporate GHG emissions targets
- c. Review and strengthen anti-idling measures and enforcement for City vehicle use

3. Engaging City of London Boards and Commissions (Timeline: 2022 and beyond)

- a. Obtain current status of policies and actions with respect to climate change including future direction
- b. Ensure that beneficial City details are shared (e.g., use of the Climate Lens Process, public reporting systems)

- c. Determine opportunities for collaboration
- d. Request the City of London Boards and Commissions to provide an annual update to Council on climate change actions and progress.

4. Continuing Collaboration (Timeline: 2022 onward)

- a. Continue to support and engage with other municipalities on climate change mitigation and adaptation efforts through organizations such as the Federation of Canadian Municipalities' Partners for Climate Protection program, the Clean Air Council, QUEST Canada, and ICLEI Canada's Building Adaptive and Resilient Communities program
- b. Engage with neighbouring municipalities on mutual climate change mitigation and adaptation matters including but not limited to land use development; regional public transit service; active transportation connections and transportation demand management solutions; and, natural heritage features and corridors, both land and waterway corridors
- c. Collaborate with and receive knowledge from local First Nations on the implementation of climate change plans

5. Wastewater Treatment Operations and Biosolids Management Master Plans (Timeline: 2022 – 2023)

- a. As part of the Biosolids Management Master Plan, explore the potential to achieve net-zero carbon emissions from the wastewater treatment system and potential synergies in the management of biosolids that can support climate action goals (e.g., production of renewable natural gas, nutrient recycling opportunities, sewer waste heat recovery, etc.)

6. Updating Procurement, New City Buildings and Asset Management Processes (Timeline: 2023 – 2028)

- a. Starting in 2024, all new City of London buildings in the prefeasibility stage will be designed to achieve net-zero ready emissions, with construction implementation contingent on the availability of additional funding beyond baseline levels
- b. Require all City of London lifecycle renewal projects for existing buildings to make incremental energy efficiency and resiliency improvements to contribute to Corporate milestone targets (where heritage conservation is not impacted), contingent on the availability of additional funding beyond baseline levels

- c. Apply Climate Lens Process to future Operation Yard improvements via the Operations Master Plan (OMP) in order to accommodate future infrastructure required to support electric or other zero emission fuel vehicles.
- d. Develop refined cost estimates and a financing strategy for implementing required climate change mitigation and adaptation actions for inclusion in the Corporate Asset Management Plan, for consideration with the Multi-Year Budget and for use in advocacy efforts to secure Federal/Provincial funding.
- e. Establish appropriate performance indicators and annual targets for the phased implementation of the Sustainable Purchasing section of the Procurement of Goods and Services Policy
- f. Incorporate potential climate change impact risks and vulnerabilities for assets in the Corporate Asset Management Plan

7. Lower Carbon Construction for Infrastructure (Timeline: 2022 onward)

- a. Explore, evaluate, and incorporate lower-carbon construction materials into civic infrastructure projects where possible (e.g., low-carbon concrete, mass timber, recycled materials)
- b. Explore, evaluate, and incorporate lower emission construction techniques and methods into civic infrastructure projects where possible (e.g., electric or compressed natural gas heavy equipment)

8. Revising City of London Fleet Vehicle and Equipment Procurement Plans (Timeline: 2023-2025)

- a. Develop procurement processes (report back in 2023), consistent with the Procurement of Goods and Service Policy, that ensure all fleet procurements fully examine alternatives and opportunities to reduce and/or eliminate fossil fuel use in City fleet, taking into account key operational factors such as product availability and performance, service levels, infrastructure and power supply requirements, financial feasibility and budgetary limitations, including:
 - i. Developing plans for enhanced fleet vehicle utilization, idling reduction, vehicle sharing, vehicle reductions, and further adoption of Low-Speed Electric Vehicles (LSV), e-bikes and (potentially) cargo e-bikes
 - ii. Requiring all new passenger vehicles (cars, vans, SUVs) procured to be electric vehicles or other zero emission vehicles as of 2025
 - iii. Requiring all new light and medium duty work vehicles and equipment (pick-up trucks, work vans, heavy duty diesel pick-ups) procured to be electric or other zero emission fuel alternatives where available as of 2028

- iv. Requiring that all external fleet rental and lease contracts be amended to require supply of light and medium duty vehicles and equipment that are electric or other zero emission fuel alternatives as of 2028
 - v. Requiring the procurement of all new heavy-duty vehicles and equipment for the City of London's vehicle fleet be electric or other zero emission fuel alternatives as of 2030, subject to availability and performance
 - vi. Requiring all new City of London hand-held, portable, and light-duty off-road equipment procured to be electric or other zero emission equipment as of 2025
- b. Share information with London Hydro as they continue to investigate opportunities to reduce the GHG emissions footprint of their fleet operations, including implementation of electrical vehicles.

9. Assessing and Potentially Establishing a Carbon Accounting/ Budgeting Framework (Timeline: 2022 – 2027)

- a. Undertake research on carbon accounting/budgeting frameworks for local governments
- b. Identify and assess options and resource requirements for a carbon accounting/budgeting framework to potentially be used in parallel with existing financial practices (2023 – 2024)
- c. Subject to successful completion of action 9b:
 - i. Establish an annual corporate carbon budget to provide accountability and transparency on progress to meeting corporate emissions reduction targets;
 - ii. Consider potential mechanisms to drive Service Area compliance with the annual corporate carbon budget and any opportunities to generate internal revenue to support climate action projects

10. Investing and Borrowing Responsibly (Timeline: 2024 onward)

- a. Investigate options for responsible investment and borrowing to ensure City resources are working to advance corporate climate action goals
- b. Join other municipal colleagues in continuing to advocate for Ontario Municipal Employees' Retirement System (OMERS) pension fund to fulfill its commitment to net zero emissions across its total portfolio by 2050

- c. Explore green bonds, municipal impact investment funds and other existing and emerging financing strategies for more resilient, lower-emissions municipal infrastructure

11. Establishing GHG Emissions Offsets Policy (Timeline: 2024-2025)

- a. Conduct review of the use of GHG emissions offsets to achieve corporate and/or community net-zero emissions by other Canadian municipalities
- b. Review and establish protocol requirements for offset quality and verification for use in achieving corporate and/or community net-zero emissions targets
- c. Establish policy for the use of offsets, including an intended upper limit for corporate GHG emissions that could be offset, the types and characteristics of acceptable offset projects and targets for the amount or proportion of verified GHG emissions offsets utilized from outside of London.

12. Address Climate Change Considerations in Affordable Housing (Timeline: 2022-2025)

- a. Pursue high standards of energy efficiency and resilience to climate change impacts in new affordable housing units funded and created in partnership with non-profit organizations.
- b. Ensure that new affordable housing units constructed in partnership with Canada Mortgage and Housing Corporation (CMHC) meet or exceed CMHC's energy efficiency standards.
- c. Integrate improved energy efficiency guidance and requirements into the municipally administered Ontario Renovates Program for Homeowners that provides grants for seniors and low-income households for home improvements.
- d. Ensure that the retrofit of affordable housing units in partnership with London Middlesex Community Housing achieve high standards of energy efficiency and resilience to climate change impacts.

Area of Focus 8 – Adapting and Making London More Resilient

1. Finalize an Adaptation Strategy based on the updated Risk Assessment for Climate Change Adaptation (Timeline: 2022)
 - a. Finalize London Working Group / Review Team
 - b. Utilize program and expertise of ICLEI
 - c. Develop list of focused actions under specific areas such as:
 - i. Integrate Climate Change Thinking and Response
 - ii. Protect Public Health and Safety
 - iii. Reduce Risk to Buildings and Property
 - iv. Strengthen Infrastructure Resilience
 - v. Protect Biodiversity and Enhance Ecosystem Functions
 - vi. Reduce Community Service Disruptions
 - vii. Build Community Resilience
2. Update the Climate Lens Process to incorporate the latest information included in the Adaptation Strategy to ensure corporate decision-making takes full advantage of the latest information (Timeline: 2022 onward)
3. Identify and assess extreme weather events, impacts and data gaps (Timeline: 2022 and annually)
4. Implement recommendations guided by the timelines established in the completed Adaptation Strategy (2022 onward)
5. Monitor best management practises of other municipalities to take full advantage of new developments in adaptation methods (Timeline: 2022 onward)
6. Work with the Middlesex-London Health Unit and other community partners to review the effectiveness of existing extreme heat event response programs, including affordable access to indoor air cooling

7. Work with community partners to review the effectiveness of existing flooding event response programs, including access to current flood hazard mapping

Area of Focus 9 – Advancing Knowledge, Research and Innovation Workplan

1. Implement Memorandum of Understanding (MoU) with Western University for Action on Climate Change (Timeline: 2022)

- a. Finalize operating arrangements and logistics
- b. Update existing and upcoming projects
- c. Develop an Academic Research Agenda for Action on Climate Change that will assist with the implementation of the Climate Emergency Action Plan
- d. Establish objectives, metrics and timelines

2. Co-create a Partnership for Knowledge, Research and Innovation (Timeline: 2022/2023)

- a. Identify and invite potential partners and collaborators to a development session
- b. Complete a scan of existing courses, programs, educational opportunities (formal and informal)
- c. Identify existing relationships and connections with respect to climate change education and action
- d. Identify opportunities to pursue business and economic development opportunities and collaborations
- e. Develop a path(s) forward including objectives, metrics and timelines

Area of Focus 10 – Measuring, Monitoring and Providing Feedback

Many of the actions below are tied to and/or contained in other Area of Focus workplans

1. Climate Change Mitigation (Timeline: 2022 onward)

- a. Continue to provide Londoners with the latest information on local greenhouse gas emissions and the expected impacts of climate change
- b. Develop an updated detailed assessment of the economic cost and benefits of climate change mitigation actions (e.g., marginal abatement costs) needed to reach net-zero emissions by 2050.
- c. Create and regularly update estimates for global GHG emissions from the local consumption of goods and services (i.e., Scope 3 emissions) for inclusion in the community GHG emissions inventory
- d. Create and regularly update estimates for the climate impacts of land use, land use change, and urban forestry (e.g., carbon sequestration rates from trees, environmentally significant areas and other natural areas, and agricultural land) for inclusion in the community GHG emissions inventory
- e. Work with London Hydro (Lead) to review London's electricity distribution system to identify the capacity for additional renewable electricity generation
- f. Work with London Hydro (Lead) as they continue to facilitate the connection of low carbon and renewable distributed energy sources such as solar, biogas, hydro generation, batteries and microgrids.
- g. Work with London Hydro (Lead) as they continue to provide applications and tools like the Green Button, Commerce (formerly IDC), Property Management Portal, and MyLondonHydro for customers to review and manage their energy usage.
- h. Work with Enbridge Gas (Lead) to review London's gas distribution system to identify the capacity for additional "green gas" (i.e., renewable natural gas and/or hydrogen) gas injection
- i. Work with the London Economic Development Corporation (Lead) and the London Chamber of Commerce (Lead) to define and encourage the growth of employment in the green products and services sector in London

- j. Work with the London Chamber of Commerce, London Economic Development Corporation and Green Economy London to encourage London's business community to set GHG reduction targets for their business and track progress towards these targets
- k. Work with the Pillar Non-profit Network to determine how the United Nations Sustainable Development Goals can be addressed as part of public reporting with respect to climate action

2. Climate Change Adaptation (Timeline: 2022 onward)

- a. On an annual basis, compile a summary of extreme weather events impacting London and list the actions taken or required to address the impacts to Londoners, as per the 'Building an Adaptive and Resilient Community' process and our partnership with ICLEI
- b. Assess through measurement the connectivity, ecosystem health, and area of the natural heritage system
- c. Work with the Middlesex London Health Unit to review and update the migration patterns and tracking of applicable human health impacts of climate change (e.g., lyme disease carried by ticks)
- d. Assess, track, and report on the change in permeability of urban lands through Low Impact Development (LID) and de-paving (removal of hard surfaces) initiatives
- e. Work with the Conservation Authorities and other emergency preparation and response partners to assess damage and remediation actions needed to address flooding impacts and recovery

3. Progress Reporting (Timeline: 2022 onward)

- a. Confirm or establish the baseline data and 2030 objective for each Expected Result
- b. Provide Municipal Council with a report on Climate Emergency Action Plan implementation progress and performance on an annual basis
- c. Provide Municipal Council with a report on community-wide and corporate GHG emissions on an annual basis
- d. Provide the public with an easy-to-find and easy-to-use platform(s) and visuals for presenting information on Climate Emergency Action Plan implementation progress, community-wide GHG emissions, corporate GHG emissions, and progress on adaptation measures being undertaken

- e. Continue to report community and corporate energy use and GHG emissions data at both the national and global level through the Federation of Canadian Municipalities' Partners for Climate Protection program, CDP Cities, and the Global Covenant of Mayors
- f. Report on municipal adaptation efforts through ICLEI Sustainable Cities - Building Adapting and Resilient Communities (BARC), CDP Cities, and the Global Covenant of Mayors
- g. Make community and corporate energy use and GHG emissions data accessible via the open data portal