

APPENDIX “B” HAMILTON’S CLIMATE ACTION STRATEGY IMPLEMENTATION UPDATE 2023

The following table represents the most current update as of September 2023 on the actions within Hamilton’s Climate Action Strategy that was approved by City Council in August 2022. The table below is broken out between the two major climate mitigation and climate adaptation plans including:

- ReCharge Hamilton – Our Community Energy and Emissions Plan; and
- Hamilton’s Climate Change Impact Adaptation Plan.

ReCharge Hamilton – Our Community Energy and Emissions Plan 2023 Update

Enabling Actions within Hamilton's Climate Action Strategy		
HCAS Actions and Timelines	Lead Department/Division	Status Update
<i>(Enabling Action i)</i> Investigate and Design a Carbon Accounting Framework	Planning and Economic Development/ Office of Climate Change Initiatives	IN PROGRESS Scope of Work currently drafted and being reviewed internally. Proposing 6-phase approach with pilot climate prioritization through 2024 budget process and full roll-out occurring in 2025.
<i>(Enabling Action ii)</i> Corporate Energy Reserve (revolving fund expansion)	Public Works, Corporate Facilities and Energy Management	NOT STARTED

<p>(Enabling Action iii) Municipal and Community Green Bond Assessment</p>	<p>Corporate Services/ Financial Planning, Admin and Policy</p>	<p>IN PROGRESS Staff are currently investigating Social and Green Bond frameworks including review of any alignment with the scope of work being established under the Carbon Accountability and Budgeting Framework. Update to Council in Q1 2024. Staff capacity continue to be an issue. Consultant to be retained.</p>
<p>(Enabling Action iv) Climate Change Reserve</p>	<p>Planning and Economic Development/ Office of Climate Change Initiatives</p>	<p>COMPLETE City Council approved through 2023 Budget process a 0.25% tax levy (approximately \$2.5 M annually) to fund this reserve on an annual basis.</p>

Low-Carbon Transformation #1: Innovating Our Industry		
HCAS Actions and Timelines	Lead Department/Division	Status Update
<p>CEEP Action 1.0: Establish a net-zero Industrial Working Group</p> <p>2022 Onward</p>	<p>Joint collaboration between: City Manager’s Office, Chief Digital and Innovation; Planning and Economic Development, Office of Climate Change Initiatives; and Planning and Economic Development, Economic Development.</p>	<p>IN PROGRESS</p> <p>City Council approved May 3, 2023 \$240K over 4 years to support the creation of a 'first-of-its-kind' Hamilton Regional Decarbonization Hub. Total 4-year budget estimated at \$3.2 M with funding being sought from federal government and private stakeholders</p>
<p>CEEP Action 1a: Development and deployment of a zero-emissions industry program</p> <p>2022-2024</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives (co-ordinating role)</p>	<p>IN PROGRESS</p> <p>Staff currently engaging with local academic institutions to gauge existing programs and curriculum in a variety of fields related to clean energy, energy efficiency, trades, engineering etc.</p>
<p>CEEP Action 2.0: Establish a cleantech accelerator</p> <p>2022-2026</p>	<p>Joint collaboration between: City Manager’s Office, Chief Digital and Innovation; Planning and Economic Development, Office of Climate Change Initiatives; and Planning and Economic Development, Economic Development.</p>	<p>IN PROGRESS</p> <p>See update on Action 1.0 above. Hamilton Regional Decarbonization Hub mandate, although not 100% confirmed, will be to initiate socio-economic analysis on clean technology (e.g. green hydrogen) to begin accelerating pilot initiatives and study the potential for scaling.</p>

<p>CEEP Action 3.0: Expand local industrial energy management training programs (incl. subsidized opportunities for marginalized populations)</p> <p>2022-onwards</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives (co-ordinating role)</p>	<p>IN PROGRESS Staff currently engaging with local academic institutions as part of Action 1.a above and are investigating how these programs are or can support people and communities who are or have been vulnerable/marginalized.</p>
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<p>Low-Carbon Transformation #2: Transforming Our Buildings</p>		
<p>HCAS Actions and Timelines</p>	<p>Lead Department/Division</p>	<p>Status Update</p>
<p>CEEP Action 4.0 Develop and integrate City-wide new green development standards</p> <p>2022-2023</p>	<p>Planning and Economic Development, Planning Division</p>	<p>IN PROGRESS Staff currently working with consultant to finalize Green Development Standards (GDS). Note - this is in addition to other GDS related to Low-Impact Development as described in Resilient Theme #1.</p>
<p>CEEP Action 5.0: Install solar PV on new and existing buildings.</p> <p>2022-onwards</p>	<p>Planning and Economic Development</p>	<p>NOT STARTED</p>

	Public Works, Corporate Facilities and Energy Management	NOT STARTED
CEEP Action 6.0: Design and plan for a mass deep energy retrofit program (may include retrofit delivery centre) 2022-2023	Planning and Economic Development, Office of Climate Change Initiatives	IN PROGRESS The Pilot Better Homes Hamilton Program approved by GIC in May 2023 with \$1.0M in approved loans and \$275K in fixed costs is expected to launch before the end of 2023.
CEEP Action 6a: Training and retraining programs 2022-onwards	Planning and Economic Development, Office of Climate Change Initiatives (co-ordinating role)	IN PROGRESS Staff currently engaging with local academic institutions to gauge existing programs and curriculum in a variety of fields related to clean energy, energy efficiency, trades, engineering etc.

<p>CEEP Action 6b: Launch a small-scale neighbourhood deep energy and emissions retrofit project in the residential sector</p> <p>2022-2023</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives</p>	<p>IN PROGRESS Pilot Better Homes Hamilton (as described above in Action 6.0) is targeting 50 low rise residential properties. However, this type of neighbourhood approach will be further explored throughout the pilot phase and the feasibility reported to Council after the two-year pilot phase is complete.</p>
<p>CEEP Action 6c: Finance and deliver mass deep energy retrofit program for the residential sector, scaling up to city-wide program considering development of a commercial retrofit program</p> <p>2023-onwards</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives</p>	<p>IN PROGRESS Feasibility for expanding Better Homes Hamilton (as described above in Action 6.0) will be considered through the pilot phase with recommendations to Council following the 2-year pilot phase.</p>

Low-Carbon Transformation #3: Changing How We Move

HCAS Actions and Timelines	Lead Department/Division	Status Update
<p>CEEP Action 7.0: Expand and connect active transportation networks</p> <p>2022-onwards</p>	<p>Public Works, Transportation Operations</p>	<p>IN PROGRESS 765KM of bike lanes in City at end of 2022. Additional 35KM's of bike lanes planned for 2023. City Council approved acceleration of Cycling Master Plan. Recommended Transportation Master Plan be updated to show where active mobility networks are most needed.</p>

<p>CEEP Action 8.0: Decarbonize the bus fleet</p> <p>2022-onwards</p>	<p>Public Works, Transit</p>	<p>IN PROGRESS</p> <p>64% of buses were Compressed Natural Gas (CNG) at end of 2022. Expected diesel buses will be fully decommissioned by 2026. Next challenge is to replace natural gas with renewable natural gas. This will require additional budget and support from OCCI and others.</p>
<p>CEEP Action 9.0: Plan for and develop expanded urban and rural transit service and e-mobility services</p> <p>2022-onwards</p>	<p>Public Works, Transit</p>	<p>NOT STARTED</p>
	<p>Planning and Economic Development, Transportation Planning and Parking</p>	<p>IN PROGRESS</p> <p>Shared Commercial E-Scooter program launched on April 3, 2023 with e-scooters owned/operated by Bird Canada Inc. Service area initially matched Hamilton Bike Share system and expanded eastward into Ward 4 from Ottawa Street to Kenilworth Avenue. As of August 2023, total of 275 commercial e-scooters in service and logged 232,414KM of travel. Over same period there were 854 bike share units in service that logged 324,939KM of travel.</p>

<p>CEEP Action 10.0: Establish then implement a city-wide EV Strategy (residential, commercial, and municipal)</p> <p>2022-2025</p>	<p>Planning and Economic Development, Transportation Planning and Parking</p>	<p>IN PROGRESS Terms of Reference for City-Wide Electric Vehicle (EV) strategy has been completed and Steering Committee has been established. Competitive Request for Proposal (RFP) for strategy is expected to be released in early 2024. Additionally, as part of Parking Standards Review, new Zoning requirements to ensure new residential developments are EV ready are being developed.</p>
<p>CEEP Action 11.0: Commercial Fleet Decarbonization Work Group</p> <p>2022-onwards</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives (co-ordinating role)</p>	<p>NOT STARTED</p>
<p>CEEP Action 12.0: EV mechanic training and retraining program</p> <p>2022-onwards</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives (community co-ordinating role)</p>	<p>IN PROGRESS Staff currently engaging with local academic institutions to gauge existing programs and curriculum in a variety of fields related to electric vehicles, clean energy, energy efficiency, trades, engineering etc.</p>

	Public Works, Fleet Services, Corporate Asset Management	NOT STARTED
<p>CEEP Action 13.0: Limit parking in the downtown core and promote EV parking</p> <p>2022-2025</p>	Planning and Economic Development, Transportation Planning and Parking	<p>IN PROGRESS</p> <p>Since 2018 a total of 502 parking spaces in the Downtown have been repurposed for development. This represents 15% of the public parking supply. The installation of all 40 EV chargers in public lots was completed in early 2023.</p> <p>Parking Master Plan has been adopted, with emphasis on integrating parking supply with new development and supporting expansion of EV parking infrastructure.</p> <p>Draft updated parking standards, including eliminating parking minimums in some areas of the City and establishing zoning requirements for EV parking, approved for consultation in August 2023.</p>
	Planning and Economic Development, Office of Climate Change Initiatives (promotion and co-ordinating role)	NOT STARTED

Low-Carbon Transformation #4: Revolutionizing Renewables		
HCAS Actions and Timelines	Lead Department/Division	Status Update
<p>CEEP Action 14.0: Develop a next generation electrical grid</p> <p>2022-onwards</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives (co-ordinating role for community)</p>	<p>IN PROGRESS</p> <p>Staff currently participating in Independent Energy Service Operator (IESO) southwestern regional planning that includes the City of Hamilton and our applicable Local Utilities. City Staff also participate in organizations (e.g. Clean Air Partnership, Bay Area Climate Change Council) that advocate to the IESO and other provincial agencies on these matters.</p>
<p>CEEP Action 15.0: Encourage development of local renewable energy cooperatives</p> <p>2022-onwards</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives (co-ordinating role for community)</p>	<p>NOT STARTED</p>
<p>CEEP Action 16.0: Implement strategic renewable solar energy installations</p> <p>2022-2025</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives (co-ordinating role for community)</p>	<p>NOT STARTED</p>
	<p>Public Works, Corporate Facilities and Energy Management</p>	<p>IN PROGRESS</p> <p>Current work being done through Corporate Net Zero Roadmap for both deep energy retrofits and strategic solar renewable energy installations.</p>

<p>CEEP Action 17.0: Technical feasibility study of expanded anaerobic digestion facilities</p> <p>2023-2025</p>	<p>Public Works, Hamilton Water and Waste</p>	<p>NOT STARTED Awaiting results of future Organics Study being completed by Waste.</p>
<p>CEEP Action 18.0: Technical analysis of green hydrogen potential, costs, as well as actions to increase green hydrogen deployment in the City through the creation of a hydrogen hub. (Part of CEEP Actions #1-3)</p> <p>2024-2025</p>	<p>Joint collaboration between: City Manager’s Office, Chief Digital and Innovation; Planning and Economic Development, Office of Climate Change Initiatives; and Planning and Economic Development, Economic Development.</p>	<p>IN PROGRESS See update on Action 1.0 above. Hamilton Regional Decarbonization Hub mandate, although not 100% confirmed, will be to initiate socio-economic analysis on clean technology (e.g. green hydrogen) to begin accelerating pilot initiatives and study the potential for scaling.</p>
<p>CEEP Action 19.0: Decarbonize and expand HCE downtown district energy system</p> <p>2023-2025</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives (co-ordinating role for the City)</p>	<p>IN PROGRESS City staff participate on Hamilton Community Enterprises (HCE) technical steering committee for the Energy Harvesting Feasibility Study with a goal of developing a scalable model for low-carbon building heating using residual waste heat from industry. Additionally, Economic Development’s municipal incentive programs include enhanced eligibility that include buildings that are built to connect to District Energy and/or District Energy Ready.</p>

<p>CEEP Action 20.0: Technical + financial analysis for expanded organics collection and diversion</p> <p>2022-onwards</p>	<p>Public Works, Waste</p>	<p>IN PROGRESS Staff currently moving forward with Organics Study to prepare a business case assessment of options and opportunities to support the City's long-term Organics Management Program.</p>
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<p>Low-Carbon Transformation #5: Growing Green</p>		
<p>HCAS Actions and Timelines</p>	<p>Lead Department/Division</p>	<p>Status Update</p>
<p>CEEP Action 21.0 Review + update Official Plan to address climate change and energy policies</p> <p>2022 - onwards</p>	<p>Planning Division, Planning and Economic Development</p>	<p>IN PROGRESS The review and update to the Urban Hamilton Official Plan to incorporate the policy directions in the CEEP will be completed as part of Phase 2 of the City's Municipal Comprehensive Review (MCR) Workplan - Local Context.</p>

<p>CEEP Action 22.0: Integrate community energy/climate action policy directions into Secondary Plans</p> <p>2022 - onwards</p>	<p>Planning Division, Planning and Economic Development</p>	<p>IN PROGRESS Climate Action policy directions were incorporated into the Waterdown Community Node Secondary Plan approved in March 2022. Climate Action and Community Energy considerations will be integrated into future Secondary Planning processes for Urban Expansion Areas. These processes are being initiated and are expected to continue over the next several years. In addition, there is development of a Terms of Reference for an Energy and Environmental Assessment Report underway as part of the City's response to Bill 109.</p>
<p>CEEP Action 23.0: Set a target of 50,000 trees planted per year within City boundaries</p> <p>2022 - onwards</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives (co-ordinating role for community)</p>	<p>IN PROGRESS Staff currently engaged in discussion with several community partners on coordinating and ramping up tree planting across Hamilton, specifically in hard to green areas of the City. Moving into 2024 Staff will be identifying processes for better and ongoing tracking/report mechanisms for community-wide tree planting.</p>
	<p>Public Works, Environmental Services Division</p>	<p>IN PROGRESS City's Forestry and Horticulture Section has ramped up their efforts to get trees into the ground through a variety of activities such as:</p> <ul style="list-style-type: none"> Increasing the yearly goal of planting 12,000 – 20,000 trees per year;

		<ul style="list-style-type: none"> • Surpassed their Free Tree Giveaway from a goal of 3,000 to 3,536; and • Community Tree Planting Events increasing plantings to 1,970 trees in 2022 (compared to previous 3-year average of 941 trees).
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Hamilton’s Climate Change Impact Adaptation Plan 2023 Update

Enabling Actions within Hamilton's Climate Action Strategy		
HCAS Actions and Timelines	Lead Department/Division	Status Update
E.1 - Establish a Climate Change Office with staff dedicated to implementing and tracking the Climate Change Impact Adaptation Plan.	Planning & Economic Development	COMPLETED Office of Climate Change Initiatives was established in Nov 2023. A Senior Project Manager was transferred into the Office in Nov 2023, a Director was hired in Dec 2023, and a new SPM and PM were funded in the 2023 Budget and hired in 2023. Staff in OCCI will facilitate and track progress of implementation of CCIAP.
E.2 - Designate key metrics for climate impacts in the City and task staff with collecting and tracking data over time (e.g. traffic accident reports, basement flood reports, etc.).	Planning and Economic Development, Office of Climate Change Initiatives (In collaboration with internal Climate Change Initiatives Steering Committee)	ONGOING Some basic metrics have already emerged by virtue of nature of actions in the CCIAP, and additional metrics will emerge as implementation efforts proceed.

Resilient Theme #1: Built Environment		
HCAS Actions and Timelines	Lead Department/Division	Status Update
<p>CCIAP Action 1.1: Develop requirements for the incorporation of Low Impact Development (LID) features and green infrastructure into new development and redevelopment projects and consider watershed and landscape scales in the development of plans and objectives.</p> <p>Long-term (>5 years)</p>	<p>Planning & Economic Development, Growth Management</p>	<p>IN PROGRESS</p> <p>Draft Green Standards & Guidelines for Low Impact Development (GSG) have now been drafted specifically to guide private development applications. Final version of the Guidelines expected by Q4 of 2023</p>
<p>CCIAP Action 1.2: Develop guidelines and incentives for homeowners and landlords to improve the resilience of residential buildings to climate-related risks through upgrades and/or retrofits.</p> <p>Short-term (<2 years)</p>	<p>Public Works, Hamilton Water (lead for stormwater fee development)</p> <p>Planning and Economic Development, Office of Climate Change Initiatives (lead for Better Homes Hamilton Pilot)</p>	<p>IN PROGRESS</p> <p>Development of a municipal stormwater fee is well underway and includes exploration of incentives/ credits to support on-property stormwater management measures as an integral part of the fee framework.</p> <p>Better Homes Hamilton - the City's pilot home energy retrofit loan program has been designed and the intake of applications from residents is expected before the end of 2023. Potential expansion of eligible retrofits will be conducted through the 2-year pilot phase.</p>

<p>CCIAP Action 1.3: Conduct more studies or reviews to determine flooding and other risks throughout the City & develop plans (e.g. relocating sites where appropriate) to improve the resilience of infrastructure (i.e. buildings, roads, water/wastewater infrastructure, etc.) to climate-related risks from extreme weather and temperatures.</p> <p>Medium-term (2-5 years)</p>	<p>Public Works, Hamilton Water</p>	<p>IN PROGRESS</p> <p>Flooding and Drainage Improvement Framework – Environmental Assessments - first one to be initiated Q4 2023, with more EAs to be completed in future years in other parts of the combined sewer shed. Ultimately these EAs will likely point to infrastructure solutions such as green infrastructure and sewer separation.</p> <p>IDF (Intensity Duration Frequency) Curve Assessment - every 5 years – Last completed in 2022, this study assesses our local precipitation Intensity, Duration, and Frequency to ensure stormwater design standards aligns with the most current data on precipitation for 2 year storms, 5 year storms, etc.</p> <p>Beach Boulevard Flooding and Drainage EA – to be completed Q4 2023, the final recommendations will revolve around infrastructure solutions to mitigate flooding in the Beach Boulevard community (e.g. stormwater pumping station, ditch rehabilitation, etc.)</p> <p>Ainslie Wood Environmental Assessment – Nearing completion, Public Information Centre #2 is slated for Q4 2023. Again, this EA will evaluate various infrastructure solutions to mitigate neighbourhood flooding in the Ainslie Wood</p>
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		<p>neighbourhood.</p> <p>Combined Sewer Flow Monitoring Study – RFP issued.</p>
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<p>CCIAP Action 2.1: Improve winter travel conditions through further expanding sidewalk clearing.</p> <p>Short-term (<2 years)</p>	<p>Public Works, Roads Operation</p>	<p>IN PROGRESS</p> <p>In November 2022, Transportation increased kilometers of sidewalks maintained during the winter from 397km to 866km.</p> <p>Transportation now clears all sidewalks along all Priority 1 & 2A roadways where transit operates.</p> <p>Recommendation Report coming to Public Works Committee October 2023 and will present additional enhancements to:</p> <ul style="list-style-type: none"> -Sidewalk snow clearing -Snow clearing around schools -MLE enforcement
<p>CCIAP Action 2.2: Encourage and promote safer travel practices, choices, and alternatives through considering all users of Hamilton's transportation network and by working with local groups to create a communications campaign around the benefits of work-from-home</p> <p>Medium-term (2-5 years)</p>	<p>Planning & Economic Development, Sustainable Transportation Division</p>	<p>IN PROGRESS</p> <p>City of Hamilton work focused on applying an equity lens to travel practices/ choices/ alternatives includes:</p> <ul style="list-style-type: none"> -Support for Bike Share ‘Everyone Rides’ subsidized bike share memberships -E-Scooter pilot offering of reduced fees for system in specified geographic areas of city. -Subsidized and/or free HSR fare programs for community members

Resilient Theme #2: People and Health		
HCAS Actions and Timelines	Lead Department/Division	Status Update
<p>CCIAP Action 3.1: Develop and implement a response program for vulnerable populations to protect residents from climate-related risks (i.e. extreme cold, extreme heat, etc.)</p> <p>Medium-term (2-5 years)</p>	<p>Healthy and Safe Communities, Public Health Services</p>	<p>IN PROGRESS</p> <p>This action is addressed in the Heat Response Strategy going forward to Public Health Committee in Q1 of 2024.</p> <p>The City of Hamilton has a Heat Response Plan that is reviewed and updated annually. The Plan includes actions that the City currently takes during Heat Warnings and Extended Heat Warnings and when the EOC will be activated.</p> <p>Public Health Services is engaging with Landlords to provide education about Heat Related Illness and measures they can take to protect tenants.</p>

<p>CCIAP Action 3.2: Consolidate existing vulnerable persons’ contact lists and update/expand them to guide emergency response and/or other assistance programs. Medium-term (2-5 years)</p>	<p>Healthy and Safe Communities, Public Health Services</p>	<p>IN PROGRESS Public Health Services is working with Hamilton Paramedic Services to determine opportunities for expansion to existing programs to address heat related illness.</p> <p>Public Health Services is using heat mapping in conjunction with epidemiological data to target vulnerable areas within the City to target education to Landlords about Heat Related Illness of their tenants.</p>
<p>CCIAP Action 3.3: Coordinate local efforts to address excessive indoor temperatures in rental housing Medium-term (2-5 years)</p>	<p>Joint effort between Planning and Economic Development, Municipal Law Enforcement, and Healthy and Safe Communities, Public Health Services</p>	<p>IN PROGRESS Licensing and Bylaw Services along with Public Health will prepare an Adequate Heat Bylaw for City Council review and approval in Q1 2024.</p>
<p>CCIAP Action 3.4: Align ongoing efforts within the City to continue expanding affordable housing to protect vulnerable populations to reduce climate-related impacts from extreme weather and temperatures Long-term (>5 years)</p>	<p>Healthy & Safe Communities, Housing Secretariat</p>	<p>IN PROGRESS CityHousing Hamilton has committed to both retrofitting existing units and building new social housing units that are constructed to climate resilient, passive house standards. CHH has been successful with securing ‘green funding’ from sources including the Federation of Canadian Municipalities’ Green Municipal Fund to support this transition to greener building standards for social housing in Hamilton.</p>

<p>CCIAP Action 4.1: Create educational campaigns on communicating the risks associated with climate change (i.e. health impacts, property damage, etc.) and what residents can do to prepare (GDS, LID, etc.)</p> <p>Short-term (<2 years)</p>	<p>Planning and Economic Development, Office of Climate Change Initiatives</p>	<p>IN PROGRESS</p> <p>OCCI is creating a communications strategy and developing associated outreach tools to engage and inform the community. Other Departments and Divisions also engage in efforts to educate the broader public on these issues - for example - Public Health Services educates the public on the health impacts of issues associated with climate change including extreme heat and cold, vector borne disease, etc.</p>
<p>CCIAP Action 4.2: Evaluate and select programs for making emergency preparedness kits accessible to anyone, regardless of income (e.g. subsidies or free distribution campaigns)</p> <p>Medium-term (2-5 years)</p>	<p>Healthy and Safe Communities, Public Health Services, and Hamilton Fire, Office of Emergency Management</p>	<p>NOT STARTED</p> <p>Consultation to be initiated in Q1 2024 with Office of Emergency Management.</p>

<p>CCIAP Action 4.3: Establish buddy systems/help-your-neighbour programs to implement during extreme weather events</p> <p>Short-term (<2 years)</p>	<p>Healthy and Safe Communities, Public Health Services</p>	<p>IN PROGRESS</p> <p>This action is addressed in the Heat Response Strategy going forward to Public Health Committee in Q1 of 2024.</p> <p>Currently, Public Health Services encourages that citizens check on their neighbours and family during Heat Warnings and Extended Heat Warnings. This is included in the messaging in the City’s Media Release during Heat Events, is referenced on the City’s website and is included on promotional hand-outs.</p> <p>Materials will be distributed with promotional items in 2024.</p>
<p>CCIAP Action 5.1: Work with local partners to ensure vulnerable groups are informed about and have the means to be adequately protected from vector-borne diseases (e.g. West Nile Virus, Lyme Disease, etc.)</p> <p>Long-term (>5 years)</p>	<p>Healthy and Safe Communities, Public Health Services</p>	<p>NOT STARTED</p> <p>Work to be initiated in Q1 2024.</p>

<p>CCIAP Action 5.2: In conjunction with the Biodiversity Action Plan, develop an Open Space Management Plan to guide City of Hamilton Natural Open Space Stewardship, including maintenance schedules to minimize ideal conditions for vectors (e.g. plants and animals, such as mosquitos, that can bring diseases, such as rabies, Lyme disease, to human populations)</p> <p>Long-term (>5 years)</p>	<p>Public Works, Environmental Services</p> <p>Healthy and Safe Communities, Public Health Services</p>	<p>IN PROGRESS</p> <p>Balancing the protection and enhancement of naturalized areas, while also limiting exposure of vectors to humans continues to be an ongoing issue. However current signage exists related to ticks and where people may be at risk of higher exposure. Where possible parks staff mow one mower-width (2m or so) on either side of paths to keep a clear path for walking and to limit overhanging plants.</p> <p>At the same time, focusing on biodiversity (species, genetics) is a key strategy to increase ecosystem resilience against invasive pests and disease.</p> <p>City staff put out communication updates when new diseases and pests arrive in the Hamilton area. Updates include information about what residents can do if they find these pests/diseases. Enlisting the public to observe and report is an important way to track the status of these invaders.</p> <p>While these do not pose a risk to human health, public updates were recently released regarding:</p> <ul style="list-style-type: none"> -Hemlock Woolly Adelgid & Spotted Lanternfly -Oak wilt (which has appeared in Niagara area)
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<p>CCIAP Action 6.1: Continue to update existing municipal plans and policies to decrease health and safety risks associated with extreme weather and temperatures to outdoor workers</p> <p>Medium-term (2-5 years)</p>	<p>Human Resources</p>	<p>IN PROGRESS</p> <p>Current Hot Weather Safety guidelines remain in place and are reviewed and updated as needed.</p> <p>In 2023 Health, Safety & Wellness Team began providing guidance to people leaders on how to protect outdoor workers during periods of poor air quality.</p> <p>New guideline - planned to provide guidance to reduce staff health risk by using the national Air Quality Health Index and corresponding health messages to provide recommendations for the workplace to follow.</p> <p>Monitoring - Ministry of Labour, Immigration, Training and Skills Development's consultation on regulating Heat Stress and Poor Outdoor Air Quality under the Occupational Health and Safety Act to prepare for any new employer duties related to heat and poor air quality for our outdoor workers.</p>
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<p>CCIAP Action 6.2: Explore opportunities to expand current cooling & warming centre programming and interventions.</p> <p>Short-term (<2 years)</p>	<p>Healthy and Safe Communities, Public Health Services</p>	<p>IN PROGRESS This action is addressed in the Heat Response Strategy going forward to Public Health Committee in Q1 of 2024.</p> <p>In 2023 Hamilton Public Library began opening the Hamilton Room at the Central Public Library on Statutory Holidays during Heat Warnings and Extended Heat Warnings. This service is an enhancement from previous years.</p>
<p>CCIAP Action 6.3: Improve monitoring, data collection, and notification surrounding flooding & extreme weather/temperatures</p> <p>Long-term (>5 years)</p>	<p>Healthy and Safe Communities, Public Health Services</p>	<p>IN PROGRESS This action is addressed in the Heat Response Strategy going forward to Public Health Committee in Q1 of 2024.</p> <p>Public Health Services uses epidemiological data along with heat mapping vulnerability data to determine highest risk areas to target for heat initiatives.</p>

Resilient Theme #3: Natural Environment, Agriculture and Water		
HCAS Actions and Timelines	Lead Department/Division	Status Update
<p>CCIAP Action 7.1: Continue to enhance the management and restoration of existing natural areas and seek opportunities to dedicate land and natural areas for conservation.</p> <p>Medium-term (2-5 years)</p>	<p>Public Works, Environmental Services</p>	<p>IN PROGRESS</p> <p>On-going naturalization efforts are currently underway - all in partnership with Conservation Halton at: Joe Sam's Park, Courtcliffe Park, and at Flamborough Centre Park. Activities include natural habitat restoration, wetland creation, invasive species removal, creek restoration and realignment.</p> <p>Bioswale installed at Florence Parker Sports Park.</p> <p>Future projects anticipated at: William Connell Park (invasive species removal & naturalization), Confederation Beach Park - natural shoreline erosion mitigation through native plantings.</p> <p>Land Acquisition Strategy - presented to GIC in September 2023.</p>

CCIAP Action 8.1: Work with local partners to continue tree planting and preservation, explore community partnerships and naturalization programs to reduce urban heat island and enhance ecosystem function.

Medium-term (2-5 years)

IN PROGRESS

Expansion of Community Tree Planting Program - has facilitated surpassing 2023 target to plant 1800 trees, with projected completion for the year at over 3600 trees. 2024 tree planting target will be over 5000 trees to continue to expand naturalized planting areas with the assistance of volunteer partnerships and build on this success.

Forestry staff have engaged CityLab to complete a literature review related to municipal woodlot management.

2023 Free Tree Giveaway provided over 3500 trees to residents, schools and not-for profit organizations to plant on their own private property. Target for 2024 is 5000 trees.

Forestry staff engaged in Air Quality Day with Green Venture & participated in National Indigenous Peoples Day Gathering event on June 21st.

<p>CCIAP Action 8.2: Implement the Urban Forest Strategy (UFS) and consider additional measures to support it or expand its impact.</p> <p>Medium-term (2-5 years)</p>	<p>Public Works, Environmental Services</p>	<p>IN PROGRESS</p> <p>The Urban Forest Strategy (UFS) was approved by Council on June 21st, 2023</p> <p>The impact of the UFS and recommendations was expanded through a 40% urban forest canopy target for 2050. Implementation of itemized actions is underway.</p>
<p>CCIAP Action 9.1: Educate and encourage community to participate in growing food locally (e.g. lot level or urban farms/gardens).</p> <p>Short-term (<2 years)</p>	<p>Healthy and Safe Communities</p>	<p>In Progress</p> <p>Support for community gardens is seen through a recommendation made in the Recreation Master Plan (2022) to increase the number of community gardens on municipal property. Currently there are 18 community gardens on City property, mainly in parks and there are community gardens on all City Housing Hamilton seniors’ building sites.</p> <ul style="list-style-type: none"> • Farm to school programming with schools near McQuesten Urban Farm. HWDSB Focus on Youth program partners with McQuesten Urban Farm for summer student placements. <p>Since the pandemic, the number of community gardens has increased in</p>

		<p>Hamilton overall. Many of these community gardens are coordinated by other organizations, off City property and supported by the Community Garden Network coordinated by Neighbour to Neighbour.</p>
<p>CCIAP Action 9.2: Expand rain water capture (i.e. rain barrels, cisterns, etc.) as an irrigation source for more localized food production (i.e. backyard farming, urban gardens, soft landscapes, etc.)</p> <p>Medium-term (2-5 years)</p>	<p>Public Works, Hamilton Water</p>	<p>IN PROGRESS</p> <p>Currently stormwater funding fee review has been completed and Council approved the fee structure. Finance Staff, in consultation with internal Steering Committee and Working Groups, are expected to launch a communications and engagement plan across the City to consult on developing financial incentives for property owners to capture rainfall and use it on their property.</p>
<p>CCIAP Action 9.3: Engage with local agricultural leaders to understand existing resources for farmers in addressing climate adaptation, and how the City can support or expand on those efforts.</p> <p>Medium-term (2-5 years)</p>	<p>Office of Climate Change Initiatives, Economic Development; and Healthy and Safe Communities</p>	<p>NOT STARTED</p> <p>*Status update refers to City initiated efforts only</p>

<p>CCIAP Action 9.4: Develop an educational campaign directed at restaurant and grocery industries, local farms and other possible food sources to better reduce and divert food waste and explore opportunities to reduce food waste.</p> <p>Medium-term (2-5 years)</p>	<p>Public Works, Waste Management Healthy & Safe Communities</p>	<p>NOT STARTED Addressing food waste is highlighted as an action within the Food Strategy that may be incorporated into future work.</p>
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Resilient Theme #4 - Energy and Economy		
HCAS Actions and Timelines	Lead Department/Division	Status Update
<p>CCIAP Action 11.1: Work with local partners to conduct vulnerability and risk assessments on local energy systems and identify opportunities to increase local energy generation (e.g. microgrids) to increase reliability (potentially as part of planned CEEP priority actions around identifying renewable energy generation sites within the City).</p> <p>Medium-term (2-5 years)</p>	<p>Public Works, Corporate Facilities & Energy Management</p>	<p>IN PROGRESS Energy Management Section - in discussion with HCE (District Energy) on greening their generation of District Energy, future addition of more loads in downtown core. It plans to conduct feasibility study around renewable energy generation opportunities and battery storage at various sites. Leaders from Energy Management Section also participates in various industry working groups that discuss provincial energy demand and supply and explore best practices and partnerships around this topic.</p>

CCIAP Action 11.2: Establish low-carbon back-up power systems in all City-owned facilities to serve as community hubs during emergencies and create a policy to support and promote the use of low- or no-carbon emergency energy supplies such as batteries or energy storage for residents and businesses.

Long-term (>5 years)

Public Works, Corporate Facilities & Energy Management

IN PROGRESS

Corporate Facilities & Energy Management (CFEM) has initiated a review of multiple generators within Corporate Facilities portfolio and is assessing opportunities to switch to low carbon fuel - including appropriate generator sizing for enhanced resiliency.

CFEM is also exploring opportunities to increase biogas production at its two existing sites and potential market opportunity to convert into RNG to support conversion from natural gas to low carbon fuel. This also includes purchasing RNG from gas utilities.