

**APPENDIX “C” Implementation Update – 2023 Projects Funded By Climate Change Reserve**

<b>Project</b>	<b>Details</b>	<b>Implementation Status</b>
<b>Electrical Upgrades to Accommodate EV Charging at City Facilities</b>	<p>Electrical capacity upgrades are required to enable the installation of charging stations in 15 City facilities. Reserve funding, combined with federal NRCan funding, has enabled the City to support 37 Level 2 chargers and 1 Level 3 (rapid) charger by undertaking electrical capacity upgrades in 15 City facilities. Upgrades will enable recharging of city fleet EVs that have already been purchased and/or funded.</p> <p><i>Reserve Support = \$535,000</i></p>	<p>Ten locations are now operational with a total of 31 available Level 2 charging stations. This includes charging infrastructure at City Hall, 700 Woodward Avenue, 330 Wentworth North, and 11 City yards.</p> <p>The current plan is the remaining 16 Level 2 and 2 Level 3 stations will be installed and operational by the end of Q4 2024.</p>
<b>E-Bike Pilot for Hamilton Bike Share</b>	<p>Reserve funding is supporting the purchase of 100 e-bikes, equipment to support the e-bikes, and administrative support to Hamilton Bike Share in order to enable a 3-year Bike Share E-Bike pilot project in Hamilton.</p> <p><i>Reserve Support = \$750,000</i></p>	<p>E-bikes have been ordered from the manufacturer &amp; are due to arrive in Q4 of 2024. E-bikes will be put into service as part of the Hamilton Bike Share system in March 2025.</p>
<b>Municipal Parking Lot Greening/ Climate Adaptation</b>	<p>Reserve funding will help to support greening and/or the introduction of sustainable surfaces at six city parking lots.</p> <p>Proposed improvements include: piloting different porous asphalts, supporting greening with tree and native plant installation, and incorporating bike parking and street furniture. The parking lots proposed for improvement are at various locations across the lower city.</p> <p><i>Reserve Support = \$200,000</i></p>	<p>Land surveys have been completed.</p> <p>Work is anticipated to be completed at 5 of the lots before the end of 2025 and the 6<sup>th</sup> lot in 2026.</p>

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<p><b>Enhancement &amp; Expansion of Secure Bike Parking Facilities</b></p>	<p>Reserve funding will enable enhancements at existing secure bike parking facilities and the establishment of new secure bike parking facilities in the city. This will help the City initiate a new and innovative approach to secure bike parking by leveraging other planned projects and establishing a network of secure facilities at transit hubs and major destinations including: City Hall, Convention Centre, York Boulevard Parkade, McMaster University, Mohawk College, Eastgate Square Transit Terminal and other locations to be determined through further consultation.</p> <p><i>Reserve Support = \$350,000</i></p>	<p>Secure fencing upgrades have been made at current facilities. Facility locking mechanisms will also be upgraded.</p> <p>Installation of new facilities will be completed by Q4 of 2025.</p>
<p><b>De-paving Pilot Project</b></p>	<p>Undertake targeted de-paving initiatives on City-owned lands, including boulevards and streets, to provide and test strategies for enhanced stormwater retention, tree canopy coverage, and urban greening. Focus areas to include locations identified as priorities through the Urban Forest Strategy.</p> <p><i>Reserve support = \$350,000</i></p>	<p>Preliminary assessments of multiple smaller locations undertaken, with shift to pursuit of one larger project, via a cross-division working group, and to leverage CCR funding to access additional funds from higher levels of government (Federation of Canadian Municipalities – Green Municipal Fund)</p>
<p><b>Fire Truck Anti-Idling Technology</b></p>	<p>Reserve funding will enable the purchase and installation of battery-powered auxiliary power units (APUs) on 15 existing heavy fire vehicles. This technology can reduce fire apparatus idling by up to 45% and overall engine use by up to 15%, leading to GHG emission reductions of 18 tCO<sub>2</sub>e/yr per vehicle.</p> <p><i>Reserve Support = \$900,000</i></p>	<p>Device procurement to take place Q3/Q4 of 2024.</p> <p>Device installation on existing trucks requires rotating a heavy fire vehicle out of service for 60 days to be retrofitted.</p> <p>In October a rural pumper was purchased that has the anti-idling technology installed.</p>

Project	Details	Implementation Status
		<p>5 more of the anti-idling devices will be installed in 5 new frontline fire trucks to be purchased in 2025. An additional 3 – 5 existing heavy fire trucks will be retrofitted next year.</p> <p>The remaining 5 devices will be installed on existing fire trucks in the fleet in 2026.</p>