


APPENDIX 1.2


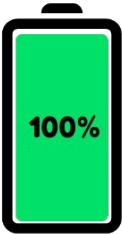
Summary of implementation progress to date on responding to City Council directions on the TransformTO Net Zero Strategy



Appendix 1.2

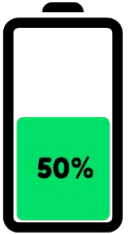
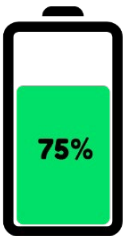
Summary of implementation progress to date on responding to City Council directions on the TransformTO Net Zero Strategy


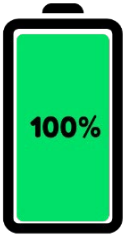
Implementation progress to date of items from City Council decision on the TransformTO Net Zero Strategy report, *TransformTO – Critical Steps for Net Zero by 2040* ([2021.IE26.16](#)), and related decisions.

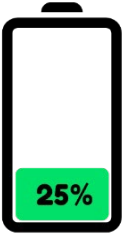
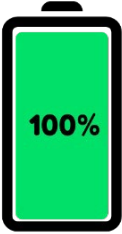
Council decision Part	Council decision Part	Responsible Divisions & Agencies.* Lead is first.	Progress description	Progress to date
Directions resulting from City Council decision on report <i>TransformTO – Critical Steps for Net Zero by 2040</i> (2021.IE26.16):				
Part 1	1. City Council endorse the targets and actions outlined in Attachment B to the report (December 2, 2021) from the Interim Director, Environment and Energy, titled "TransformTO Net Zero Strategy" with the following additional instructions:	N/A		N/A (no action required)
Part 1 a	a. direct the Chief Planner and Executive Director, City Planning, to accelerate implementation of the greenhouse gas emission limits performance measure in the Toronto Green Standard to ensure that buildings constructed in or after 2030 are near zero emissions, by revising the Toronto Green Standard Tier	CP	This action was completed in July 2021 as part of Toronto Green Standard (TGS) update version 4.	



	1 mandatory performance measure as follows, to: the "High Performance" level (Toronto Green Standard Version 4 Tier 2) to apply in 2025; and the "Near Zero Emissions" level (Toronto Green Standard Version 4 Tier 3) to apply in 2028;			
Part 1 b	b. request the Director, Environment and Energy, in consultation with the Chief Planner and Executive Director, City Planning, to set goals to limit new natural gas expansion, and sunset the sale of new natural gas fired equipment and report back in 2023 with actions to be implemented to support this endeavour;	E&C, CP	Emission Performance Standards for buildings, in combination with the Toronto Green Standard, provide a framework for reducing reliance on fossil fuels and limiting expansion of the natural gas system.	
Part 1 c	c. request the Government of Ontario and provincial agencies and corporations to set a sunset date before 2030 for the sale and installation of new natural gas fired equipment to consumers;	E&C, CMO	This request has been conveyed to the Government of Ontario.	


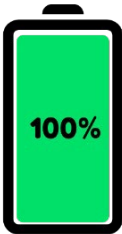

Part 1 d	d. continue to support Transportation Service's plan to accelerate the capital budget schedule for redesign of roadways as part of the Cycling Network Plan;	TSD		N/A (no action required)
Part 1 e	e. continue to ensure that, when considering any changes to the Investment Policy, the Chief Financial Officer and Treasurer and the Toronto Investment Board consider and incorporate internationally-recognized best practices for Environmental, Social and Governance;	CFO	<p>In 2023, the Toronto Investment Board contracted a third party data provider (MSCI) to conduct an ESG and Carbon Analytics review on the City's long-term investment portfolio. The Investment Board is a City board, responsible to control and manage the City's investments of funds not immediately required by the City. The review was in response to a City Council request to monitor and report on the performance of external investment firms hired by the Board with respect to ESG factors, as per the Investment Policy. To staff's knowledge, Toronto is the only municipality in Canada doing this type of review.</p> <p>The most recent ESG reporting update (2023.IB5.5) is available here:</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IB5.5</p>	
Part 1 f	f. continue to ensure that as of 2023, any new equipment being installed in a City facility must contribute to net zero and all new buildings be designed and built to net zero;	CREM	<p>An internal portal has been developed to allow project managers to access expert advice on equipment replacements and potential net-zero options. Standard specifications for equipment replacements are also in development, which will allow staff to independently identify these options in the future. Although progress has been made in this area, a lack of staff resources and additional funding to avoid the installation of higher-emission equipment, has made implementation challenging.</p>	


Part 1 g	g. support resident-led climate action and engagement by dedicating resources to supporting community hubs, community centres, neighbourhood pods and other local support networks, as key social and physical infrastructure for strengthening community climate engagement and resilience;	E&C	<p>This work is part of an ongoing partnership with the Centre for Social Innovation, the Toronto Climate Action Network and the Canadian Community Challenge to develop and nurture a community-led, climate action, collective impact framework. The project deeply engaged more than 1,000 residents in 2023.</p> <p>This Collective Impact Project team is working to integrate climate into the existing network of hubs and establish new climate-specific hubs, especially targeting youth, over 2023-2028. This is in partnership with the Centre for Social Innovation, the Toronto Climate Action Network, the Canadian Community Challenge and the Toronto Environmental Alliance.</p>	
Part 1 h	h. direct the Director, Environment and Energy to centre the voices of equity-deserving groups, including youth, civil society organizations, labour and workers' rights organizations, academia, Indigenous rights holders and urban Indigenous communities by:	E&C	<p>The Climate Advisory Group was established with broad sector, geographic and demographic representation, and includes members from equity-deserving groups including youth (2 members), civil society organizations (8 members), labour and workers' rights organizations (2 members), and academia (2 members). The CAG membership will be reviewed periodically to ensure, as much as possible, that the group is reflective of the diversity in Toronto.</p> <p>Engagement with Indigenous rights holders and urban Indigenous communities is being explored through a separate process in consultation with the Indigenous Affairs Office (IAO).</p> <p>E&C continues to take part in the Indigenous Youth Research Associate Program and has submitted another application for this upcoming year to integrate Indigenous Youth voices into climate action.</p>	

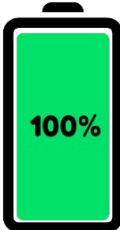
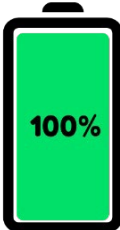
Part 1 h 1	1. establishing a Climate Advisory Group that centres the voices of equity-deserving groups, and includes youth, civil society organizations, labour and workers' rights organizations, and academia and work with Indigenous rights holders and urban Indigenous communities to share knowledge and learnings to inform climate action and reporting back to City Council on a terms of reference developed by city staff and the Climate Advisory Group; and	E&C	<p>The Climate Advisory Group (CAG) was formed in October, 2022. Reporting to the Executive Director of the Environment & Climate Division, the CAG has 26 members including individuals and organizations from key sectors and communities across the city, including youth, labour, academia, civil society organizations and equity-deserving communities. A separate process for engaging with the local Indigenous community is currently being explored.</p> <p>Quarterly meetings took place in 2023. The City also hosted a half-day orientation workshop on Equity for CAG members in early 2023, with the goal of ensuring that all members have the appropriate information available to them to include an equity lens in their work with the group.</p>	
Part 1 h 2	2. reporting back on the feasibility of creating a Climate Change Corps to support the goals and objectives of the Transform TO Net Zero Strategy;	E&C	<p>Report adopted May 2022 (2022.IE29.10): https://secure.toronto.ca/council/agenda-item.do?item=2022.IE29.10</p> <p>In addition, City Council in November, 2023, adopted the following (2023.MM12.4 - Youth Climate Corps):</p> <ol style="list-style-type: none"> 1. City Council request the Federal Government to create a Youth Climate Corps. 2. City Council forward this item to Deputy Prime Minister Chrystia Freeland and the Minister for Women and Gender Equality and Youth, Marci Ien. <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.MM12.4</p>	




Part 1 i	i. direct the Executive Director, Corporate Real Estate Management to share Corporate Real Estate Management's Net Zero Carbon Plan with the Board of the Toronto Community Housing Corporation and work in partnership with Toronto Community Housing Corporation to achieve targets and goals laid out in the plan; and	CREM	Meetings with TCHC and CREM staff have compared their plans to the Net Zero Carbon Plan for City buildings. TCHC retains ownership and management control of their portfolio of buildings, data, targets, and future planning, and are not obliged to follow the Net Zero Carbon Plan, similar to Toronto Hydro and other arm's-length corporations.	
Part 1 j	j. request the Toronto Transit Commission Board to identify opportunities to accelerate the Green Bus Program and to request the Chief Executive Officer, Toronto Transit Commission to report to the Toronto Transit Commission Board in the second quarter of 2022 on these opportunities.	TTC	This action is complete. TTC reported on this item at its July, 2022 Board meeting, as Item 9: https://www.ttc.ca/All-public-meetings/board/2022/Board-Meeting-Jul-14?tab=0	
Part 2	2. City Council approve the following community-wide greenhouse gas reduction targets:	N/A		N/A (no action required)
Part 2 a	a. 45 percent reduction in community-wide greenhouse gas emissions by 2025, from 1990 levels; and			N/A (no action required)

Part 2 b	b. net zero greenhouse gas emissions by 2040.			N/A (no action required)
Part 3	3. City Council direct the Director, Environment and Energy to report back:	E&C		N/A (no action required)
Part 3 a	a. in the second quarter of 2025, with a status update on progress in meeting the City of Toronto's 2030 corporate and community-wide greenhouse gas reduction targets, as outlined in Part 2 above and Attachment B to the report (December 2, 2021) from the Interim Director, Environment and Energy, titled "TransformTO Net Zero Strategy";	E&C	E&C has initiated work on the planning and development of the next TransformTO Net Zero status update.	
Part 3 b	b. in the second quarter of 2025, with a four year implementation plan for 2026-2030 on any additional actions and authorities required to achieve the City of Toronto's 2030 greenhouse gas reduction target; and	E&C	E&C has initiated work on the planning and development of the next TransformTO Net Zero Strategy Short-term Implementation Plan (2026-2030).	



Part 3 c	c. annually on emission reductions achieved for community-wide greenhouse gas reduction targets, and the 2025, and 2030 goal.	E&C	<p>Reporting takes place every year through the City's Sector-Based Emissions Inventory.</p> <p>2025 target (13.6 MT) – To reach this target, emissions need to be reduced by 1.0 MT from 2021 levels.</p> <p>2030 target (8.6 MT) - Toronto must reduce annual emissions by about 5.9 MT from 2021 levels to meet the 2030 target. Toronto must rapidly increase its current annual emissions reduction rate.</p>	
Part 4	4. City Council direct the City Manager, in consultation with all appropriate City divisions heads, including the City Solicitor, or their designates, to develop and implement a plan that outlines how to refer to TransformTO Net Zero Strategy goals and targets as and where appropriate in all relevant:	CMO, E&C, Legal, Other Divisions	<p>City Council adopted the City of Toronto Policy on Referencing TransformTO Net Zero Goals in Submissions and Filings in May, 2023 (2021.IE3.3):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE3.3</p> <p>Efforts to ensure all City staff are aware of the policy and its application to their work are proceeding in accordance with the policy.</p>	
Part 4 a	a. submissions that the City of Toronto makes or the City of Toronto staff make in federal and provincial public comment processes; and	CMO, E&C, Legal, Other Divisions	See above.	



Part 4 b	b. filings that the City of Toronto makes in proceedings before Federal and Provincial regulatory bodies, administrative tribunals and courts.	CMO, E&C, Legal, Other Divisions	See above.	
Part 5	5. City Council authorize the Deputy City Manager, Corporate Services, or their designate, until December 31, 2030, to negotiate and enter into agreements, as may be required, to support the implementation of the City Council-adopted recommendations presented in the TransformTO Net Zero Strategy, dated December 2, 2021 with non-profit, public, and private sector organizations to:	DCM CS		N/A (no action required)
Part 5 a	a. collaborate on projects or initiatives;	DCM CS		N/A (no action required)
Part 5 b	b. provide in-kind and / or financial support from the approved Environment and Energy Division budget on projects or initiatives; and/or	DCM CS		N/A (no action required)

Part 5 c	c. receive funding, on terms and conditions acceptable to the Deputy City Manager, Corporate Services, in consultation with the Director, Environment and Energy, and in a form satisfactory to the City Solicitor.	DCM CS		N/A (no action required)
Part 6	6. City Council request the Director, Environment and Energy, to report back in the second quarter of 2022, on the accountability and management framework for TransformTO and the Net Zero Strategy, including:	E&C	In May, 2022, City Council adopted the report, Accountability and Management Framework for the TransformTO Net Zero Strategy (2022.IE29.10): https://secure.toronto.ca/council/agenda-item.do?item=2022.IE29.10	
Part 6 a	a. the composition, meeting frequency and reporting framework for the Climate Advisory Group and Joint TransformTO Implementation Committee as well as any additional advisory bodies, working groups, climate change corps, and consultation tables;	E&C	Terms of reference for the Climate Advisory Group and the Joint TransformTO Implementation Committee were attached to the Accountability and Management Framework report (2022.IE29.10). https://secure.toronto.ca/council/agenda-item.do?item=2022.IE29.10	


Part 6 b	b. the reporting schedule to City Council; and	E&C	The Accountability and Management Framework report (2022.IE29.10) included the reporting schedule.	
Part 6 c	c. any plans for external peer-review.	E&C	The Accountability and Management Framework report (2022.IE29.10) outlined the approach to external peer review.	
Part 7	7. City Council direct the Director, Environment and Energy to consult with members of the construction and development industry to identify challenges and solutions to ensure we reach our goal of 100 percent of new buildings built to near zero emissions by 2030.	E&C	<p>Environment & Climate continues to consult with members of the development and construction industry to identify challenges and solutions to building new development to be net-zero. Environment & Climate has been studying the impacts of embodied carbon on new development including measures such as:</p> <ul style="list-style-type: none"> • Creating an RFP to conduct a study on the emissions-related targets for TGS v5. The study will occur during 2024 and will be used to create ambitious but feasible carbon targets for new development in Toronto. • Participating in multi-party workshops regarding the impacts of embodied carbon in urban design, waste and circularity, and procurement processes. The findings of 	

			the workshops will influence the City's future embodied carbon targets for new buildings.	
Part 8	8. City Council authorize the Deputy City Managers to negotiate and enter into non-competitive agreements, including those with a value exceeding \$500,000 for which City Council approval would normally be required under City of Toronto Municipal Code Chapter 195 (Purchasing) with companies that have won Climate Champion status through the MaRS Discovery District's Mission from MaRS Climate Impact Challenge, on the following conditions:	DCMs		N/A (no action required)
Part 8 a	a. that the provision of goods or services from the company will assist the City to reduce greenhouse gas emissions and is aligned with the City's Net Zero Strategy;	DCMs		N/A (no action required)
Part 8 b	b. that any agreement is within the budget of the respective division within the Deputy City Manager's Service Area;	DCMs		N/A (no action required)

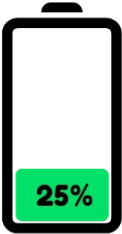
Part 8 c	c. that the agreement is on such terms and conditions satisfactory to the Deputy City Manager; and	DCMs		N/A (no action required)
Part 8 d	d. that the agreement is in a form satisfactory to the City Solicitor.	DCMs		N/A (no action required)
Part 9	9. City Council direct that the Chief Procurement Officer report, as part of the annual Controller's report, on any non-competitive agreement that the Deputy City Managers enter into with companies that have won Climate Champion status through the MaRS Discovery District's Mission from MaRS Climate Impact Challenge.	PMMD	<p>There have been no non-competitive procurements with companies that have won Climate Champion status through MaRS.</p> <p>The annual Controller's report was replaced with reporting on the City's website. Procurement metrics are available here: https://www.toronto.ca/business-economy/doing-business-with-the-city/understanding-the-procurement-process/procurement-metrics/.</p>	
Part 10	10. City Council authorize the City Solicitor, in consultation with the City Clerk, to submit a Bill to Council to codify the currently Council-adopted targets, strategies, policies, programs and initiatives pertaining to green energy and climate change, in the first instance from this report, as additional articles in Chapter 669 of the City of Toronto Municipal Code, as and where appropriate.	Legal, E&C	<p>City Council adopted the Climate Change Goals and Governance by-law text by decision May 10, 2023 (2023.IE3.4)</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE3.4</p> <p>and voted to enact the bill by decision June 15, 2023 (2023.BL7.1):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.BL7.1</p> <p>Toronto is now the first municipality in North America to codify its climate change goals and governance process into</p>	

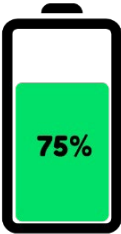
			law. This codification will enhance transparency of, and accountability for, the City's action to reduce GHGs in Toronto.	
Part 11	11. City Council direct the City Manager and Deputy City Managers, in consultation with the Director, Environment and Energy to report back by the first quarter of 2023 on:	CMO, DCMs, E&C	The City made significant progress on this action in 2023 through several key reports (see below).	
Part 11 a	a. what aspects of existing City programs and / or by-laws aimed at reducing natural gas use in new and existing buildings need to be strengthened or accelerated; and	CMO, DCMs, E&C	<p>The report, Update on the Net Zero Buildings Strategy and Implementation of Mandatory Emissions Performance Standards, was adopted by City Council in the third quarter of 2023 and provides an overview of implementation progress (2023.IE6.4):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE6.4</p> <p>The report included Net Zero Existing Buildings Strategy options for strengthening programs and by-laws aimed at reducing building emissions, including:</p> <ul style="list-style-type: none"> • Acceleration of the development of Emission Performance Standards and Reporting through the City's Long Term Financial plan. These standards will set emissions limits for all buildings and will require owners to improve emissions performance over time. • Emissions Performance Reporting By-law adopted by City council in the fourth quarter of 2023 (2023.IE9.5): https://secure.toronto.ca/council/agenda-item.do?item=2023.IE9.5. 	

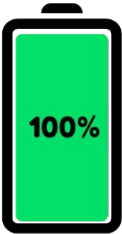
			<ul style="list-style-type: none"> • The report identifies future work including: <ul style="list-style-type: none"> ○ Expand integrated retrofit support programs. ○ Expand and enhance retrofit financing. ○ Support permitting and approvals processes for deep retrofits. ○ Build awareness and capacity of home and building owners for emissions reduction strategies and supports. ○ Support workforce development and training. ○ Advocate and partner with other levels of government. ○ Expanding marketing tactics to reach a broader audience. <p>The report, Design Principles for Retrofit Financing Programs and Funding Solutions to Support Building Decarbonization, was adopted by City Council in the third quarter of 2023 and provides the principals and process for developing policy actions and new and enhanced programs, including funding solutions to further enable decarbonization of homes and buildings (2023.IE6.5):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE6.5</p> <p>The report, Update: City Renewable Energy Plans, recommended or was amended by Council to recommended the following existing City programs should be strengthened or accelerated (2023.IE9.7):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE9.7</p> <p>SolarTO could be accelerated by:</p> <ul style="list-style-type: none"> • Further streamlining the grid interconnection process for solar and energy storage. 	
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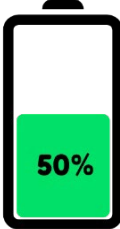

			<ul style="list-style-type: none"> • Developing a new corporate standard for aligning solar panel installation and re-roofing projects on City-owned buildings could speed up solar energy generation adoption. • Developing a new corporate standard for aligning solar panel installation and re-paving projects on City-owned parking lots could speed up solar energy generation adoption. <p>The existing applicable zoning by-laws could be amended to remove regulatory barriers for implementing solar or energy storage projects across Toronto.</p>	
Part 11 b	b. what additional programs and / or by-laws aimed at reducing natural gas use in new and existing buildings need to be developed and implemented, in order to achieve the greenhouse gas emission reduction targets as outlined in Part 2 above and Attachment B to the report (December 2, 2021) from the Interim Director, Environment and Energy, titled "TransformTO Net Zero Strategy".	CMO, DCMs, E&C	<p>Development of Emission Performance Standards was accelerated through the City's Updated Long Term Financial plan (2023.EX7.1). These standards will set emissions limits for all buildings and will require owners to improve emissions performance over time.</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.EX7.1</p> <p>E&C is expected to propose a by-law in the fourth quarter of 2024.</p> <p>The emission performance reporting by-law adopted under 2023.IE9.5 will also contribute to property owners understanding the performance of their buildings, and the City will have the data to identify and target large emitters of GHGs.</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE9.5</p> <p>The report, Update on the Net Zero Buildings Strategy and Implementation of Mandatory Emissions Performance Standards, was adopted by City Council in the third quarter</p>	

			<p>of 2023 and provides an overview of implementation progress (2023.IE6.4):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE6.4</p> <p>The report included Net Zero Existing Buildings Strategy options for potential development of new programs and by-laws aimed at reducing building emissions, including:</p> <ul style="list-style-type: none"> • Development of Emission Performance Standards. • Emissions Performance Labelling. • Amendment to Emissions Performance Reporting for buildings under 600 square metres, including low-rise residential. • Emissions Auditing Requirement for Large Buildings. • Recommissioning Requirement for Large Buildings. • Retrofit Roadmap Planning Requirement for Large Buildings. <p>The report, Update: City Renewable Energy Programs, advances this action (2023.IE9.7):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE9.7</p> <p>The City Council decision included directions aimed at addressing barriers and developing strategies to increase the deployment of renewable energy and storage technologies. The directions include:</p> <p>Locating renewable energy infrastructure under City-owned assets:</p> <ul style="list-style-type: none"> • Develop a framework for reviewing proposals with applicable City Divisions. 	
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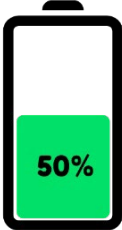
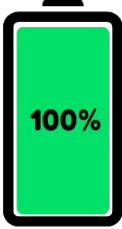
			<p>Locating heat exchange infrastructure on the Lake Ontario lakebed:</p> <ul style="list-style-type: none"> • Develop a framework for reviewing proposals with applicable City Divisions. • Consult with the Province of Ontario and the Government of Canada on a combined regulatory approach to better facilitating such projects. 	
Part 12	<p>12. City Council direct the Director, Environment and Energy, in consultation with the Controller, the Director, Accounting Services, the General Manager, Transportation Services, the Chief Planner and Executive Director, City Planning and other appropriate City Divisions, to prepare financial options and other incentives that the City could provide to encourage uptake of personal electric vehicles and disincentives to discourage use of fossil-fueled personal vehicles within the City of Toronto boundaries and report back through the 2023 budget where feasible and subsequent budget years if implementation in the 2023 budget is not feasible.</p>	<p>E&C, Controller, AS, TSD, CP, others</p>	<p>Nothing was prepared for 2023 budget because work is ongoing on the City's roles in incentives and disincentives, and what incentives and disincentives would be included.</p>	

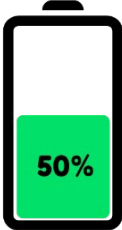

Part 13	<p>13. City Council direct the Director, Environment and Energy in consultation with the Controller, the Director, Accounting Services, the Chief Planner, and Executive Director, City Planning, the Chief Building Official and Executive Director, Toronto Buildings, and other appropriate City Divisions, and with Toronto Hydro, and to report back in the first quarter of 2023 on options for additional financial incentives, disincentives and other mechanisms to further encourage deep retrofits of existing buildings.</p>	E&C, Controller, AS, CP, TB, others	<p>The report, Update on the Net Zero Buildings Strategy and Implementation of Mandatory Emissions Performance Standards was adopted by City Council in the third quarter of 2023 and provides an overview of implementation progress (2023.IE6.4):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE6.4</p> <p>The report included Net Zero Existing Buildings Strategy options for strengthening programs and by-laws aimed at reducing building emissions, including:</p> <ul style="list-style-type: none"> • Acceleration of the development of Emission Performance Standards and Reporting through the City’s Long Term Financial plan. These standards will set emissions limits for all buildings and will require owners to improve emissions performance over time. • Emissions Performance Reporting By-law adopted by City council in Q4 (2023.IE9.5): https://secure.toronto.ca/council/agenda-item.do?item=2023.IE9.5. • The report identifies future work including: <ul style="list-style-type: none"> ○ Expand integrated retrofit support programs. ○ Expand and enhance retrofit financing. ○ Support permitting and approvals processes for deep retrofits. ○ Build awareness and capacity of home and building owners for emissions reduction strategies and supports. ○ Support workforce development and training. ○ Advocate and partner with other levels of government. ○ Expanding marketing tactics to reach a broader audience. <p>The report, Design Principles for Retrofit Financing Programs and Funding Solutions to Support Building</p>	
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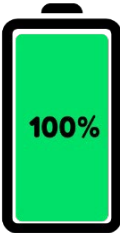
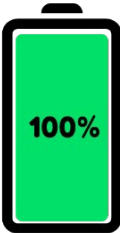
			<p>Decarbonization, was adopted by City Council in the third quarter of 2023 and provides the principals and process for developing policy actions and new and enhanced programs, including funding solutions to further enable decarbonization of homes and buildings (2023.IE6.5):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE6.5</p>	
Part 14	<p>14. City Council direct the Director, Environment and Energy and the Chief Financial Officer and Treasurer to report back in the fourth quarter of 2022 on design and implementation options for a Toronto Carbon Budget and associated key performance metrics, which align with the City's financial budgets, to manage corporate and community greenhouse gas emissions, within an absolute limit that aligns with the City's 2025, 2030, and 2040 emissions reduction targets, and make clear the implications of the limits for the City's financial budgets, the 2024 budget cycle.</p>	E&C, CFO	<p>City Council adopted the Climate Change Goals and Governance by-law text by decision May 10, 2023 (2023.IE3.4)</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE3.4</p> <p>and voted to enact the bill by decision June 15, 2023 (2023.BL7.1):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.BL7.1</p> <p>The by-law codifies community and corporate emission budgets, as well as planning and reporting processes for achieving the emissions budgets. This increases the City's accountability for actions to reduce GHG emissions.</p> <p>Toronto is now the first municipality in North America to codify its climate change goals and governance process into law. This codification will enhance transparency of, and accountability for, the City's action to reduce GHGs in Toronto.</p> <p>Implementation begins in 2024 with the first annual "carbon budget" prioritization process and also planning for the</p>	



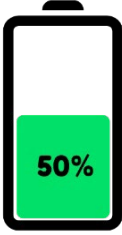
			achievement of Corporate emission budgets covering the 2026-30 period.	
Part 15	15. City Council request the Government of Ontario and Provincial agencies and corporations to:	E&C, CMO	Examples of advocacy activities are listed, below.	N/A (no action required)
Part 15 a	<p>a. develop and implement new or amend existing legislation, regulations, policies and / or programs in order to prioritize:</p> <ol style="list-style-type: none"> 1. demand response and conservation as sources of electricity generation in Independent Electricity System Operator generation selection; and 2. increase the share of renewable electricity generated on the provincial electricity grid; 	E&C, CMO	<p>In May, 2023, City Council adopted, A Clean Energy Future for Toronto, opposing any new power generation proposal involving increased burning of fossil fuels, including natural gas, in the City, and requesting the Province of Ontario to immediately invest in programs to deliver energy efficiency, demand management and conservation to meet the capacity and energy needs that would have been fulfilled by expansion of electricity production through burning of fossil fuels (2023.MM6.13): https://secure.toronto.ca/council/agenda-item.do?item=2023.MM6.13</p> <p>In 2023, Environment & Climate provide comments as opportunities arise to items posted on the Environmental Registry of Ontario, and to the Independent Electricity System Operator.</p>	
Part 15 b	<p>b. implement legislation, regulations, policies/or programs to encourage the transition to electric vehicles, including:</p> <ol style="list-style-type: none"> 1. financial incentives for new and used Electric Vehicles; 	E&C, CMO	The City submitted a response to the Ministry of Transportation's request for feedback on building public electric vehicle charging infrastructure (ERO number 019-6000), highlighting the importance of public charging in urban areas and encouraging the Ministry to engage with the City to explore potential partnership, funding, and collaboration opportunities (November, 2022).	

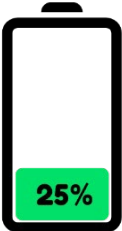
	<p>2. financial incentives for home, workplace and fleet Electric Vehicles charging infrastructure;</p> <p>3. establish a provincial sales mandate for Zero Emission Vehicles ("Zero Emission Vehicles" are battery-electric vehicles, plug-in hybrid electric vehicles or hydrogen fuel cell vehicles) that meets or exceeds any federal sales mandate for Zero Emission Vehicles;</p> <p>4. support and encourage Electric Vehicles-ready new construction;</p> <p>5. funding for publicly-accessible Electric Vehicle charging infrastructure, including for bi-directional chargers;</p> <p>6. maintain existing benefits for Electric Vehicle drivers (e.g. High Occupancy Vehicle lane access on provincial highways); and</p> <p>7. add financial incentives for purchasing all bikes, e-bikes and other non-carbon vehicles that are approved for use on City of</p>		<p>In May 2023 City staff met with staff from the Ministry of Transportation and Infrastructure Ontario to discuss public charging in Toronto.</p> <p>In June 2023, City staff participated in an interview with staff from the Ontario Digital Service on EV-related data.</p>	
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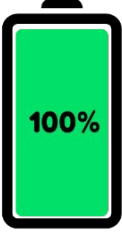
	Toronto road ways and cycling infrastructure; and			
Part 15 c	c. require all new and replacement equipment for building heating systems to be greater than 100 per cent efficiency.	E&C, CMO	Toronto Green Standard Tier 2+ developments require performance measures for low carbon heating systems.	
Part 16	16. City Council request the Government of Canada and Federal agencies and corporations to:	E&C, CMO	Examples of advocacy activities are listed, below.	N/A (no action required)
Part 16 a	a. create and enforce a national clean electricity standard to ensure decarbonization of the electricity grid as soon as possible;	E&C, CMO	<p>In June, 2023, City Council adopted, Requesting Federal Government Support for the City's Climate Goals, including in its decision that City Council request the Government of Canada to issue Clean Electricity Regulations that prohibit increasing the gas-fired generating capacity at the Portlands Energy Centre, effective immediately (2023.MM7.25):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.MM7.25</p> <p>In October, 2023, Infrastructure and Environment Committee adopted the report, Comments on Federal draft Clean Electricity Regulations (2023.IE7.6):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE7.6</p>	

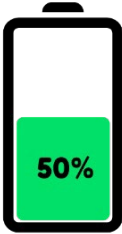
			Comments were provided to the federal government in November, 2023.	
Part 16 b	<p>b. ensure all new and replacement equipment for building heating systems be greater than 100 percent efficient as soon as possible;</p>	E&C, CMO	<p>The City requested that the Government of Canada ensure all new and replacement equipment for building heating systems be greater than 100 percent efficient as soon as possible, in December, 2022 comments on Canada's 2030 Emission Reduction Plan.</p> <p>Toronto Green Standard Tier 2+ developments require performance measures for low carbon heating systems.</p>	
Part 16 c	<p>c. implement new and maintain existing financial incentives to encourage the transition to electric vehicles, including:</p> <ol style="list-style-type: none"> 1. maintain purchase incentives for new electric vehicles and providing purchase incentives for used electric vehicles; 2. provide financial incentives for home, workplace and fleet electric vehicle charging infrastructure; and 3. provide funding to provinces and municipalities for public electric vehicle charging infrastructure, including for bi-directional chargers; 	E&C, CMO	<p>City Fleets have actively participated in the Federal Government's Buyers for Climate Action – Greening Fleet Working Group, a coalition of leading public green buyers who purchase a significant volume of goods and services in procurement categories with high environmental impact (e.g., buildings and construction materials, fleet, information and communications technology).</p> <p>This working group includes representatives from:</p> <ul style="list-style-type: none"> • Federal Government Departments • Province of British Columbia • Province of Quebec • City of Montreal • City of Vancouver, and • City of Toronto <p>In 2023, the City was a member of Electric Mobility Canada, which submitted two advocacy briefs to the federal government:</p>	


			<p>Priority Policies for the Advancement of Transportation Electrification in Canada – 2024 Pre-budget Recommendations (August 2023)</p> <p>Comments and Recommendations on Regulations Amending the Passenger Automobile and Light Truck Gas Emission Regulations – submitted to Environment and Climate Change Canada (March 2023)</p> <p>City staff met with staff of Transport Canada and Natural Resources to discuss public charging in Toronto (November, 2022).</p>	
Part 16 d	d. create and fund a national workforce and skills development strategy to enable a just net-zero transition;	E&C, CMO	The City requested that the Government of Canada Government of Canada create and fund a national workforce and skills development strategy to enable a just net-zero transition, in December, 2022 comments on Canada’s 2030 Emission Reduction Plan.	
Part 16 e	e. conduct a strategic review of international and national supply chain requirements and issues to ensure that municipalities have sufficient access to all goods and services necessary to enable a transition to the net zero emission economy;	E&C, CMO	The City requested that the Government of Canada Government of Canada conduct a strategic review of international and national supply chain requirements and issues to ensure that municipalities have sufficient access to all goods and services necessary to enable a transition to the net zero emission economy, in December, 2022 comments on Canada’s 2030 Emission Reduction Plan.	


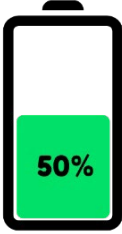
Part 16 f	f. provide mechanisms and tools to lower the risk to lenders or similar entities involved with financing projects that enable decarbonization at scale; and	E&C, CMO	The City requested that the Government of Canada Government of Canada provide mechanisms and tools to lower the risk to lenders or similar entities involved with financing projects that enable decarbonization at scale, in December, 2022 comments on Canada's 2030 Emission Reduction Plan.	
Part 16 g	g. explore the creation of new crown corporations to manufacture and / or bulk purchase heat pumps, net zero hot water heaters, solar panels, renewable energy technologies, and electric vehicles.	E&C, CMO	The City requested that the Government of Canada Government of Canada explore the manufacturing and / or bulk purchase heat pumps, net zero hot water heaters, solar panels, and renewable energy technologies, including through the creation of new crown corporations, in December, 2022 comments on Canada's 2030 Emission Reduction Plan.	
Part 17	17. City Council direct the Director, Environment and Energy, in coordination with Executive Director, Social Development, Finance and Administration and the Chief Procurement Officer, Purchasing and Materials Management, to identify ways that the City can support the reduction of the greenhouse gas emissions associated with food the City of Toronto procures, in alignment with the City's Cool Food Pledge	E&C, SDFA, PMMD	<p>Based on City Council Decision 2021.IE26.16, Part 17, City staff undertook Toronto's 2019 Cool Food Pledge Baseline Report which estimated the City's emissions associated with its public food procurement. City staff also estimated Toronto's (community-wide) food-related emissions as part of its 2019 community-wide Consumption-based Emissions Inventory (CBEI) (2023.IE6.6):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE6.6</p> <p>The City is currently focusing on ways to track and reduce its corporate food emissions through its Cool Food Pledge commitment. For instance, in May, 2023, the City awarded RFP 3743044527 to Sysco Toronto for the supply and</p>	

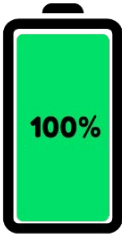

	and the C40 Good Food Cities Declaration, and to report back in the second quarter of 2023 on the status of corporate and community food-related emissions and recommended actions for the TransformTO 2026-2030 short-term action plan, including a goal to maximize local, organic and fair trade food procurement.		<p>delivery of groceries for SSLTC, SSHA and CS (2023.GG4.20) through an open procurement process. The solicitation included enhanced reporting requirements specific to the Cool Food Pledge that require the supplier to complete a Cool Food reporting tool which allows staff to quantify and track the climate impacts of the food the City purchases.</p> <p>The Cool Food Pledge Baseline Report also includes recommendations on how to reduce corporate food-related emissions, and the City is working with relevant divisions to implement potential actions to reduce these emissions.</p>	
Part 18	18. City Council direct the City Manager to explore methods of enhancing incentives and promotions for industrial/commercial enterprises for the purpose of manufacturing, installing, bulk purchasing, distributing and installing: heat pumps, hot water heaters, renewable energy technologies, district energy systems, and electric vehicles.	E&C	The City's role in this work is through programs such as the Green Will Initiative and upcoming Emissions Performance Standards for buildings, to seed the market for more uptake and growth of this kind of equipment and industry. The City is working toward these aims from a regulatory and programmatic point of view, and will increase work in this area.	

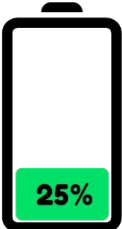
Part 19	19. City Council request the Chief Planner and Executive Director, City Planning to continue to ensure the Official Plan, Zoning By-laws, and planning policies and various Planning guidelines support the recommendations in the Net Zero Strategy, including to discourage vehicle trips, enhance building energy efficiency, to reduce embedded carbon during construction, and to encourage active transportation and transit for short trips.	CP	The Toronto Green Standard was updated in May, 2023 to include embodied emissions caps for Tier 2+ and City-owned projects. Toronto Green Standard Version 4 came into effect for new planning applications in May, 2022, including requirements for energy and emissions caps for new builds above the Ontario Building Code, electric vehicle charging, green infrastructure and more.	
Part 20	20. City Council express its support for a ban on use of two-stroke engine leaf blowers, lawnmowers and other small engine equipment and vehicles and request the Director, Municipal Licensing and Standards report back on the implementation of a ban as part of the noise update report in 2022.	MLS	This item is complete. The requested report was adopted by City Council in July, 2022 (2022.EC31.4): https://secure.toronto.ca/council/agenda-item.do?item=2022.EC31.4	



Part 21	21. City Council request the Deputy City Manager, Infrastructure and Development Services, in consultation with the General Manager, Transportation Services and the Chief Engineer and Executive Director, Engineering and Construction Services, to report back in first quarter 2023 with recommendations on the process and staffing changes required to have complete street designs considered for every major road rehabilitation project.	DCM IDS, TSD, ECS	<p>An update on the work was provided to City Council November, 2023 (2023.IE7.4, pages 31 and 32).</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE7.4</p>	
Part 22	22. City Council use its considerable influence as an OMERS employer sponsor and seat on the OMERS' Administration Corporation, to request that OMERS considers the City of Toronto's Net Zero strategy in its investment decisions and climate commitments, with a goal of limiting the global average temperature increase to 1.5° Celsius, including a plan to phase out investments in coal, oil, gas and pipelines, and consider alternatives to new fossil fuel investments.	CFO, E&C	<p>This action is the responsibility of City Council, so the progress percentage is labelled as "N/A", not applicable.</p> <p>Activities to date:</p> <ul style="list-style-type: none"> • At City Council's invitation, OMERS presented its climate strategy to Infrastructure & Environment Committee (IEC) in March, 2023 (2023.MM5.1): https://secure.toronto.ca/council/agenda-item.do?item=2023.MM5.1 • OMERS presented to IEC in September, 2023 on their Climate and Fiduciary Duties (2023.IE6.1): https://secure.toronto.ca/council/agenda-item.do?item=2023.IE6.1 • IEC invited OMERS to make an annual presentation to the Committee on the OMERS Climate Action Plan, and requested OMERS to include a more detailed climate plan and progress reports along with the annual Presentations. 	N/A

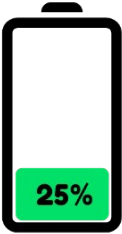


Part 23	<p>23. City Council request the Chief Planner and Executive Director, City Planning and the Chief Building Official to report back in 2022 on the feasibility of implementing emissions performance standards or incentives for existing buildings using the City’s existing authorities, for implementation in 2023 or specific recommendations for any regulatory or legislative changes needed to enable implementation of emissions performance standards and on use of the permit process to ensure or encourage existing building HVAC and hot water replacement with 100 percent efficient equipment by 2028 and all additions and renovations to meet higher energy efficiency standards.</p>	CP, TB	<p>The report, Update on the Net Zero Buildings Strategy and Implementation of Mandatory Emissions Performance Standards, was adopted by City Council in the third quarter of 2023 and provides an overview of implementation progress (2023.IE6.4):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE6.4</p> <p>The report included an update on the development of Emission Performance Standards, including proposal to use authority under City of Toronto Act, 2006, and a high-level workplan for the development process. These standards will set emissions limits for all buildings and will require owners to improve emissions performance over time.</p> <p>The Emissions Performance Reporting By-law was adopted by City Council in the fourth quarter of 2023, and is a key next step toward adoption emissions performance standards (2023.IE9.5):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE9.5</p> <p>Toronto Green Standard Tier 2+ developments require performance measures for low carbon heating systems. Report adopted by City Council in the third quarter of 2023.</p>	
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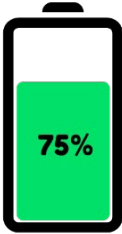
Part 24	24. City Council request the Ministry of Municipal Affairs and Housing to consider strengthening the requirements in the Ontario Building Code for increased energy efficiency improvements at the time of renovation.	Clerk, E&C, TB	A letter is sent to the Ministry in response to this type of Council direction.	
Part 25	25. City Council request the Director, Environment and Energy to develop a plan to provide financing support for low carbon thermal energy systems, potentially including the use of Local Improvement Charges or other financial mechanisms, as well as mandatory connections or connection ready and low temperature HVAC design guidelines and standards for new buildings and report back in 2023 with implementation in 2024.	E&C	<p>Low carbon thermal networks, including district energy companies active in Toronto, have received funding/financing from Portfolio Development from Canada Infrastructure Bank (CIB). Based on discussions with energy developers, there does not seem to be a need for municipal financial support at this time.</p> <p>Developers are incentivized to use low carbon energy systems in several ways, including: City Planning's Development Charge Refund Program, which was improved in 2022; and the ability to repurpose mechanical penthouse space for additional residential units through the rezoning process.</p> <p>Mechanical System Design Guidelines for Low Carbon Buildings - Voluntary Design Guidelines for Existing and New Buildings were developed in 2021.</p> <p>A 2023 report, Design Principles for Retrofit Financing Programs and Funding Solutions to Support Building Decarbonization, provides related information (2023.IE6.5): https://secure.toronto.ca/council/agenda-item.do?item=2023.IE6.5</p>	

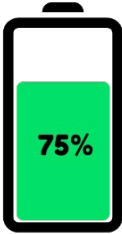
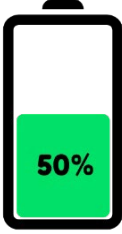
Part 26	26. City Council request the Interim Director, Environment and Energy to provide a clear definition of low carbon thermal energy sources in order to enable monitoring of progress against the target at their next annual report on the status of TransformTO.	E&C	<p>Low carbon thermal energy sources refer to heat energy supplied from resources that displace heat sourced from the combustion of fossil fuels (which contain carbon), and includes cooling sources (heat sinks) where these displace fossil fuels used for electricity production. Low carbon thermal energy sources can significantly reduce greenhouse gas emissions both by directly displacing consumption of fossil fuels used for water, building space and other process heating as well as by indirectly displacing fossil fuels used in electricity production (where the electricity is used for heating & cooling). Examples of low carbon thermal energy sources include, but are not limited to:</p> <ul style="list-style-type: none"> • Heat sources, such as solar thermal captured from the sun, geothermal captured from deep within the earth, or captured from nuclear reactions. • Waste heat (e.g. recovered from data centres, building exhaust air, subway tunnels, wastewater and more). • Heat sources and sinks (including the above examples, as well as air, waterways, the earth or other storage) can be used either naturally or coupled with heat pumps powered by low carbon electricity to provide low carbon heating and cooling. 	
Part 27	27. City Council direct the Executive Director, Municipal Licensing and Standards to set a goal of Net Zero for 2030 for vehicles-for-hire, and to align the plans for vehicle electrification and emissions reduction to achieve this goal.	MLS	<p>Municipal Licensing & Standards' (MLS) report, Transitioning the Vehicle-for-Hire (VFH) Industry to Net Zero by 2030, was adopted by Council in October 2023 (2023.EC6.6):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.EC6.6</p> <p>The report included by-law amendments to require all VFH to be zero-emission vehicles beginning in 2030 and complementary programs to support the industry's transition to net zero, including incentives for early adoption.</p>	


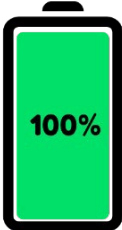
			<p>Setting a goal of net zero by 2030 for the VFH industry is a first step that will require complementary efforts across the City and its partners to effectively support a net zero VFH industry. MLS will continue to closely monitor challenges related to vehicle supply and cost, as well as the amount of publicly available charging infrastructure, by assessing equity impacts and market information as it becomes available, and regularly engaging with industry stakeholders and City partners throughout the transition.</p> <p>Staff will report back as required on identified challenges, progress on implementing program supports and overall progress towards the goal of net zero for VFH, leading up to 2030.</p>	
Part 28	28. City Council request the Director, Environment and Energy, to assess the feasibility of updating the Electric Vehicle Strategy in Item 2020.IE11.17 headed "Electric Vehicle Strategy" to include a target of accommodating 100 percent Electric Vehicle adoption by 2035.	E&C	This analysis has been initiated.	

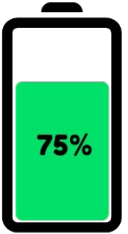
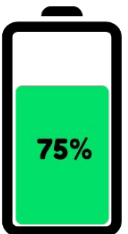
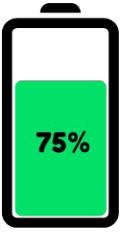
Part 29	29. City Council request the President, Toronto Parking Authority, in consultation with the General Manager, Transportation Services, to report on the feasibility of providing charging stations and exclusive access for electric vehicles at on-street paid parking spots in high-demand areas.	TPA, TSD	<p>TPA, in consultation with Transportation Services has extensively examined the feasibility of providing charging stations for electric vehicles in paid on-street parking spots in high-demand areas. Where electrical capacity is available and pole type is correct, charging stations can be installed in these areas. By the end of the first quarter of 2024, TPA will have installed 15 charging ports located in such areas and is currently examining additional similar locations for 2024 and 2025 installations.</p> <p>A report was brought forward in March, 2023: https://secure.toronto.ca/council/agenda-item.do?item=2023.PA2.2</p>	
Part 30	30. City Council request the General Manager, Municipal Licensing and Standards, in consultation with the General Manager, Transportation Services, and the Director, Environment and Energy, to explore the feasibility of allowing accessible cable covers on sidewalks to facilitate overnight charging for individuals without front pad or garage parking.	MLS, TSD, E&C	<p>The issue was addressed as part of Environment and Climate Division's report to City Council in May, 2023 (2023.IE3.6):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE3.6</p>	


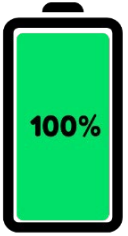
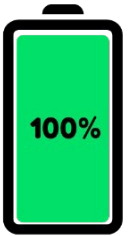
Part 31	31. City Council request the Director, Environment and Energy to include in a report to Infrastructure and Environment Committee on Electric Vehicles, information on the number of streets with permit parking which have Electric Vehicle chargers, and the number of streets with permit parking that do not have Electric Vehicle chargers.	E&C	This information will be considered in a report on public electric vehicle charging that will be submitted to City Council in the second quarter of 2024.	
Part 32	32. City Council direct the Director, Environment and Energy to consult with local Councillors on optimal locations for installations.	E&C	As part of the evaluation and approval process for on-street charging station deployment, Councillors are consulted on proposed locations for on-street charging stations in their Wards. Deployment of on-street charging requires amendments to the Parking Bylaw (to change the parking restrictions for the associated on-street parking spaces), which are subject to Community Council approval.	
Part 33	33. City Council direct the Deputy City Manager, Corporate Services and the Deputy City Manager, Infrastructure and Development Services to include Electric Vehicle charging stations in the City supported Pocket Change project.	DCM CS, DCM IDS	In 2022, the City installed on-street Level 2 charging stations at three locations: 132 Chatham Ave., 453 Jones Ave. and 503 Jones Ave.	

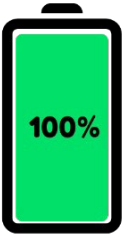

Part 34	34. City Council direct the General Manager, Transportation Services to include Riverdale for next phase of Electric Vehicle charging stations.	TSD	The City installed six charging spots in 2022 (Jones Ave. and Riverdale Ave.) and 2 charging spots in 2023 (Fulton Ave.) in the Riverdale area.	
Part 35	35. City Council direct the City Manager to do market soundings on neighbourhoods with on street permit parking to determine where the highest demand is for those who would consider purchasing an Electric Vehicle if there was on street charging.	CMO, E&C, TSD	The City is analyzing socio-economic and other data to develop projections of demand for public EV charging in Toronto between 2025 and 2040.	
Part 36	36. City Council direct the General Manager, Transportation Services to include options for dedicated Electric Vehicle charging stations on those streets that switch sides for parking.	TSD	Transportation Services considered these streets during development of On-street EV Charging Siting Guidelines and determined that in general these streets would not be suitable candidates for on-street charging.	Cancelled

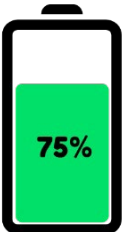
Part 37	37. City Council request the City Manager and the Director, Environment and Energy to strike a Joint TransformTO Implementation Committee with appropriate City Staff and trade unions representing workers employed by the City, including construction trades, to provide expert advice on implementation of the TransformTO goals for City operations and facilities, starting in 2022.	CMO, E&C	<p>Draft terms of reference for the Joint TransformTO Implementation Committee (JTIC) were included in a report on the TransformTO Accountability and Management Framework, adopted by City Council in May, 2022 (2022.IE29.10):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2022.IE29.10</p> <p>Planning for the JTIC took place in 2022 and 2023, with the kick-off meeting in January 2024.</p>	
Part 38	38. City Council request the City Manager, in consultation with the Chief Executive Officer, Toronto Transit Commission, to outline in the 2022 Budget proposal options to increase spending on surface vehicles and hiring additional operators aimed at increasing ridership to get us on the path to achieving the TransformTO goals.	CMO, TTC, E&C, CP, TSD	<p>The TransformTO Net Zero Strategy identifies a scenario through which the City of Toronto can achieve net zero GHG emissions community-wide by 2040. This scenario specifies a number of transportation actions, including the increase of bus and streetcar service frequency by 70% and 50%, respectively, and a minimum off-peak subway service interval of 3 minutes.</p> <p>Through the 2024 budget process, the TTC's 15-Year Capital Investment Plan was amended to identify the 5.24 billion dollar investment needed for additional buses and facilities required to grow bus service frequency by 70% by 2040. This new investment is incremental to the TTC's existing unfunded needs, which now totals \$47.855 billion between 2024 and 2038.</p> <p>The cost to implement required increases to streetcar and subway are currently being estimated and will be added to the TTC's 2025-2039 Capital Investment Plan through this year's budget process. Scenario modelling by Environment</p>	


			& Climate, TTC, and others is ongoing, and the TTC's CIP will be updated accordingly.	
Part 39	39. City Council request the City Manager to include the recommendations and short term strategies as outlined in TransformTO Net Zero Strategy in the proposed 2022 Operating and Capital Budgets for all Divisions.	CMO	This action was completed.	
Part 40	40. City Council request the Director, Environment and Energy to report to the Infrastructure and Environment Committee on the following:	N/A		N/A (no action required)
Part 40 a	a. what percentage of greenhouse gases in the City of Toronto is created by cars and trucks and vehicles in the City of Toronto;	E&C	This information is included each year in the City's Sector-Based Emissions Inventory, available on the City's website: https://www.toronto.ca/services-payments/water-environment/environmentally-friendly-city-initiatives/transformto/sector-based-emissions-inventory/	

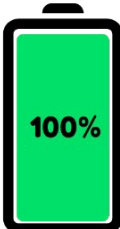

Part 40 b	b. on how the Idling By-law is currently enforced and the number of tickets that have been given out per year since 2015;	E&C	The analysis is complete, and a report is anticipated in 2024.	
Part 40 c	c. the time and nature of the most recent public education campaign on the Idling By-law that have been conducted since 2015;	E&C	The analysis is complete, and a report is anticipated in 2024.	
Part 40 d	d. the current steps undertaken by Corporate Services and other Agencies and Corporations to measure and reduce idling in the City fleet and how to discourage idling in other vehicles;	E&C, FS, TTC	The analysis is complete, and a report is anticipated in 2024.	

Part 40 e	e. district energy plans and other successful district energy plans that the City is aware of;	E&C	<p>Environment & Climate monitors all new and existing district energy systems. There are approximately eight existing systems in Toronto with several more under construction, near completion or in the planning stages, including the recently announced Etobicoke Centre Precinct.</p> <p>In October, 2023, staff began surveying and collaborating with district energy system developers, owners and/or operators to develop a reporting tracker for new developments, system expansion and decarbonization of legacy systems.</p>	
Part 40 f	f. the number of developments in the last two calendar years that have been approved that have Geothermal;	E&C	<p>Environment & Climate tracks all new development applications and reports on proposed energy systems, including geo-exchange. Since November 1, 2022, Environment & Climate staff have approved the energy model for nine development applications proposing the use of geo-exchange. In October, 2023, staff began surveying geo-exchange system developers, owners and/or operators with the intent to report annually on new system development through TransformTO updates.</p>	
Part 40 g	g. the ideal size for Geothermal application for a development – number of units or size of site;	E&C	<p>There are no size limitations, which is a key benefit of geo-exchange as it can work at any scale.</p>	

Part 40 h	h. an investigation of the green standards to include options for Geo thermal; and	E&C	The Toronto Green Standard (TGS) is performance based and purposely technology agnostic. However, geo-exchange is one of the most effective technologies to displace natural gas use in buildings.	
Part 40 i	i. all possible City operations or operations of Agencies and Corporations where significant energy capture and energy storage could take place.	E&C	Environment & Climate is currently working with Toronto Hydro and City divisions and agencies to find a suitable City-owned location to host grid-scale battery storage to enable more renewable energy integration. Environment & Climate continues to work with the industry to develop and advance technical solutions. Unfortunately, technologies for long duration energy storage are still in their infancy.	

Council decision Part	Council decision Part	Responsible Divisions & Agencies.* Lead is first.	Progress description	Progress to date
Directions resulting from City Council decision on report <i>Accountability and Management Framework for the TransformTO Net Zero Strategy</i> (2022.IE29.10):				
AMF 2	2. City Council request the Executive Director, Environment and Energy Division, as part of the TransformTO Net Zero Strategy Progress Reports identified in the Net Zero Accountability and Management Framework, to identify any funding enhancements, including funding from other levels of government, necessary to accelerate the TransformTO Net Zero Strategy to achieve upcoming community-wide greenhouse gas reduction targets.	E&C	A discussion of emission reductions and funding required to achieve them is included in this annual TransformTO Net Zero Strategy progress and accountability report.	
Directions resulting from City Council decision on Joining the United Nations' Cities Race to Zero (2021.MM36.17):				
CRZ 1	1. City Council declare support for the Cities Race to Zero as part of the United Nation's Cities Race to Zero campaign and amplify its efforts in building the momentum of the Race to Zero campaign by publicizing our	N/A	City Council joined the Cities Race to Zero and, through it, the UN's ongoing Race to Zero campaign in 2021. In December, 2021, City Council endorsed the targets and actions in the TransformTO Net Zero Strategy, which included the target of net zero emissions by 2040 in light of the climate emergency (2021.IE26.16).	N/A (no action required)

	involvement and encouraging more Canadian cities to join in this effort, especially those in the Greater Toronto and Hamilton Area where regional transportation systems and economies are shared and require joint cooperation.			
CRZ 2	2. City Council reiterate its position that we are in a global climate emergency.	N/A	City Council joined the Cities Race to Zero and, through it, the UN's ongoing Race to Zero campaign in 2021. In December, 2021, City Council endorsed the targets and actions in the TransformTO Net Zero Strategy, which included the target of net zero emissions by 2040 in light of the climate emergency (2021.IE26.16).	N/A (no action required)
CRZ 3	3. City Council reiterate its position to reach (net)-zero by 2050 or sooner, and commit to endorsing actions that are in line with global efforts to limit warming to 1.5 degrees Celsius	N/A	City Council joined the Cities Race to Zero and, through it, the UN's ongoing Race to Zero campaign in 2021. In December, 2021, City Council endorsed the targets and actions in the TransformTO Net Zero Strategy, which included the target of net zero emissions by 2040 in light of the climate emergency (2021.IE26.16).	N/A (no action required)
CRZ 4	4. City Council direct the Director, Environment and Energy to submit to the Race for Zero initiative, in advance of COP26 and the City's Net Zero Report (expected in the fourth quarter of 2021), what steps have been taken toward achieving Toronto's interim goal of 65 percent reduction of emissions from 1990 levels by 2030 in order to align with the	E&C	City Staff reported on the Highlights of Toronto's Programs to Date as part of the lead up to Council's adoption of the TransformTO Net Zero Strategy (2021.IE26.16).	

	Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5 degrees Celsius			
CRZ 5	5. City Council commit to plan at least one inclusive and equitable climate action as listed in the Cities Race to Zero campaign that will help to place Toronto on a resilient pathway, consistent with the 1.5 degrees Celsius objective of the Paris Agreement and begin implementation no later than the third quarter of 2022	E&C	<p>In December, 2021, as part of its decision on the TransformTO Net Zero Strategy (2021.IE26.16), City Council accelerated the Toronto Green Standard (TGS) implementation dates for the Greenhouse Gas Emission limits to 2025 and 2028 so that buildings constructed on or after 2030 are near zero emissions. The timeline to meet net zero standards for City-owned developments was accelerated to 2022.</p> <p>Enacting regulations and/or planning policy to ensure NEW buildings operate at net zero carbon by 2030 was one of the listed inclusive climate actions to satisfy this aspect of the Cities Race to Zero pledge.</p>	
CRZ 6	6. City Council direct the Director, Environment and Energy to report on progress on this initiative annually, beginning no later than the third quarter of 2022 to the Infrastructure and Environment Committee	E&C	<p>In 2023 City Council adopted a new by-law (later enacted as the Climate Change Goals and Governance chapter of Toronto's Municipal Code) and offset credits policy for Corporate residual emissions (2023.IE3.4):</p> <p>https://secure.toronto.ca/council/agenda-item.do?item=2023.IE3.4</p> <p>The elements of the governance by-law and offset credits policy were developed to, in part, align with the current version of the UN Race to Zero's member criteria (further explained in the related staff report).</p>	

***City Divisions, Agencies & Corporations:**

AS – Accounting Services

BST – Bike Share Toronto
CFO – Chief Financial Officer & Treasurer's Office
CMO – City Manager's Office
CP – City Planning
CREM – Corporate Real Estate Management
E&C – Environment & Climate (formerly EED – Environment & Energy)
EDC – Economic Development & Culture
FP – Financial Planning
FS – Fleet Services Division
HS – Housing Secretariat
IAO – Indigenous Affairs Office
Legal – Legal Services
MLS – Municipal Licensing & Standards
PFR – Parks, Forestry & Recreation
PMMD – Purchasing & Materials Management
SDFA – Social Development, Finance & Administration
SWMS – Solid Waste Management Services
TB – Toronto Building
TH – Toronto Hydro
TSD – Transportation Services
TTC – Toronto Transit Commission
TW – Toronto Water