

Attachment 1

Summary of implementation progress for the Short-term Implementation Plan 2022-2025 of the TransformTO Net Zero Strategy

Table A1. Implementation status of actions from the TransformTO Net Zero Strategy Short-term Implementation Plan 2022-2025 (2021.IE26.16, [Attachment A](#)).

	Actions for implementation 2022-2025	Responsible Divisions & Agencies. Lead is listed first. Legend below.	Description of action from Short-term Implementation Plan	Progress description	Status
1	Ensure near zero emissions for all new construction	CP, E&C	<p>New construction activities 2022-2025 include:</p> <ul style="list-style-type: none"> i. Implement the Toronto Green Standard, which requires net zero emissions for new development applications in 2030. ii. Review options to advance higher levels of uptake of Tier 2 and 3 buildings to facilitate transformation to net zero earlier than 2030. 	<p>Toronto Green Standard Version 4 came into effect for new planning applications in May 2022 and includes requirements for energy and emissions caps for new builds above the Ontario Building Code, electric vehicle charging, green infrastructure and more. A TGS Communication Strategy will be launched in 2023 to improve the uptake and desirability of achieving higher performance levels.</p> <p>In response to Bill 23, the City is working with the Province on opportunities to implement a green standards bylaw. In the interim, the City will continue to apply the TGS using</p>	In progress

				authorities under the City of Toronto Act (COTA) and the Planning Act.	
2	Evaluate and limit impacts of embodied carbon in construction	CP, E&C	More information is needed to understand what kinds of materials and construction techniques should be used for Toronto. The City will study the impacts and set embodied carbon limits for building materials and construction practices in new buildings.	<p>The City Planning Division in partnership with TAF, Mantle Developments and the University of Toronto completed a new research report in 2022 that benchmarks and sets targets for regulating embodied carbon in new buildings entitled: Regulating Embodied Emissions of Buildings; Insights for Ontario Municipal Governments.</p> <p>Energy Strategy and TGS Tier 2 requirements were added in 2022.</p> <p>A report is planned for Q2 2023 on results of the embodied emissions study and potential actions to address embodied carbon in new construction.</p>	In progress
3	<p>Advance Implementation of the Net Zero Existing Buildings Strategy.</p> <p>(Refer to the Net Zero Existing Buildings Strategy, adopted by City Council in July 2021, for a detailed short-term</p>	E&C, TB, MLS, CP, HS	The Net Zero Existing Buildings (ExB) Strategy presents nine recommended actions for the City to undertake, identifies key design and implementation considerations for each action, and presents the potential impacts on emissions, costs and co-benefits. The ExB Strategy takes the approach of introducing voluntary programs and policies in the near-term, followed by a transition to mandatory requirements in the	<p>Key updates include:</p> <ol style="list-style-type: none"> 1. The Deep Retrofit Challenge (DRC): With a \$5 million grant from NRCan, the DRC program launched in the summer of 2022 offering grants of up to \$500,000 for deeper-than-planned retrofits in the multi-unit residential building and mid-tier commercial office sectors. 2. The Toronto Zoo Decarbonization Project: The Energy Retrofit Loan program provided \$8.3M in funding to 	In progress

	implementation plan.)		medium to long-term. A detailed short-term implementation plan has been adopted, which can be accessed on the City's website .	<p>the Toronto Zoo for a transformative decarbonization project putting the Zoo on track to further electrification and a future net zero campus. The project focused on an innovative heat pump system.</p> <p>3. The enhanced Home Energy Loan Program (HELP): With \$14.6M in funding from the Federation of Canadian Municipalities, the City launched a short-term enhanced HELP that offered zero-interest financing. HELP received over 1,200 applications for the enhanced program, a 580% increase over 2021. In March 2023, City Council adopted report IE2.3, Home Energy Loan Program – Review of Eligibility Requirements, and amendments to criteria for the HELP program have been made to reflect Council’s recommendations.</p> <p>4. Navigation & Support Services: This program facilitated the application process and approval for approximately \$1 million dollars in federal funding from the Federation of Canadian Municipalities to assist not for profit housing providers and housing corporations to carry out GHG emissions reduction projects, with a focus on improving affordability and occupant comfort. The program has</p>	
--	-----------------------	--	--	--	--

				<p>also provided 30 no cost on site emissions audits and reports for not for profit organizations, worship facilities, and small businesses, to identify priority measures and developing individual decarbonization pathways.</p> <p>5. Green Will Initiative (GWI) Strategic Energy Management (SEM): The SEM Services curriculum was developed and launched. Ten GWI building portfolios participated in a series of interactive workshops to help portfolio owners create or enhance their Pathway to Net Zero Plans.</p> <p>6. Alignment with Net Zero by 2040: In December 2021, City Council adopted an accelerated community-wide target of net zero emissions by 2040, ten years earlier than initially proposed. Significant work is underway towards aligning the Net Zero 2040 target with the pathway identified by the ExB Strategy, and understanding the implications for the City's portfolio of service and program offerings and related policy work. A consultant has been retained to help inform this work and is expected to complete their analysis by Q3 2023.</p>	
4	Work with industry experts to explore limiting the	E&C, CP	Over 2022-2025 staff will explore tools to phase out natural gas	The City has an ongoing dialogue with industry to promote transformation to a net zero carbon future. E&C actively	In progress

	expansion of natural gas systems and reversing system growth, where feasible, and limiting installation of natural gas equipment		<p>installation and connections, including but not limited to:</p> <p>i. Develop a framework with City divisions and industry experts to limit the expansion of natural gas systems and reverse system growth, where feasible, and limit installation of natural gas equipment, and report back by Q2 2022 on recommended tools to limit use of natural gas.</p> <p>ii. Expand district heating systems into communities.</p> <p>iii. District energy heating system ready processes.</p> <p>iv. Neighbourhood impact assessments.</p>	works on net zero emissions development and voluntary fuel switching, which indirectly reduces fossil gas expansion.	
5	Support adoption and mainstreaming of net zero, resilient energy sources for new and existing developments	E&C, CP	<p>Activities in 2022-2025 include:</p> <p>i. Plan for net zero emissions districts and large developments, including secondary and precinct plan areas, academic and healthcare campuses, commercial real estate portfolios, brownfield sites, and civic clusters.</p> <p>ii. Support various City Divisions and Energy Developers in developing renewable thermal energy projects where City-owned</p>	<p>The City's work in this area includes:</p> <ul style="list-style-type: none"> • Supporting University of Toronto's climate positive commitment by permitting/coordinating underground road crossings for low carbon district energy system expansion; • Expansion of Deep Lake Water Cooling System with Enwave; • Facilitated the decarbonization by 90 per cent of University Health Network's campus at Bathurst and 	In progress

			<p>assets are involved, including sewer heat recovery, lake-based exchange, and geothermal projects.</p> <p>iii. Provide power engineering services for low-carbon backup power systems at designated emergency reception centres, and support the Office of Emergency Management in planning for new emergency reception centres.</p>	<p>Dundas by enabling the use of energy from sewers;</p> <p>Soon to launch a Wastewater Energy Program that will expand the use of sewer energy to help decarbonize buildings.</p>	
6	Address barriers and develop strategies to increase the deployment of renewable energy and storage technologies, including but not limited to solar, wind, biomass, geothermal, waste heat recovery and heat pumps	E&C, TH	<p>Activities to increase renewable energy over 2022-2025 include:</p> <p>i. Environment and Climate and other relevant parties to develop a Renewable Energy Taskforce to address barriers and develop strategies for increasing renewable energy development including;</p> <ul style="list-style-type: none"> - Investigate opportunities to encourage wider adoption of renewable energy through regulatory and incentives structures such as rebates, low-interest financing and credits; - Work with Toronto Hydro to enhance the Distributed Energy Resource interconnection process for renewable energy; 	<p>City progress in this area includes:</p> <ul style="list-style-type: none"> • Launched a SolarTO web portal and solar map that provides residents and businesses with information and preliminary solar assessment for homes and buildings. https://www.toronto.ca/services-payments/water-environment/environmental-grants-incentives/solar-to/. • Launched Wastewater Energy Program web page describing this renewable energy source. The web page includes an interactive map indicating the heating and cooling capacity of sewers in the City: https://www.toronto.ca/services-payments/water-environment/net- 	In progress

			<ul style="list-style-type: none"> - Review the building permitting process related to renewable energy and storage and explore opportunities for streamlining; - Review zoning requirements and identify restrictions that prohibit renewable energy development including solar photovoltaic, and assess opportunities for improvement; ii. Environment and Climate to report back in 2023 with findings from this work and identify specific budget requests, authorities and actions required for increasing renewable energy development, including but not limited to solar, heat pumps, geothermal, waste heat recovery and storage. 	zero-homes-buildings/wastewater-energy-transfer-program/	
7	<p>Actively support, advocate to and partner with Toronto Hydro, as well as the Provincial and Federal governments and agencies, to decarbonize the provincial electricity grid,</p>	CMO, E&C, TH, HS	<p>Activities include:</p> <ul style="list-style-type: none"> i. Continue to advocate to the Government of Ontario the critical importance of lowering GHG emissions from the electricity grid in order to reach net zero targets, and work with the Province and other partners in this regard. ii. Collaborate with and advocate to all levels of government and related agencies and utilities to bring about the changes in energy 	<p>The City advocates to and partners with the Provincial and Federal governments, and communicates with Toronto Hydro, on an ongoing basis.</p> <p>To ensure that implementation of Toronto Hydro’s Climate Advisory Services and the City’s TransformTO Net Zero Strategy are coordinated, a memorandum of understanding (MOU) is being developed:</p> <p>http://app.toronto.ca/tmmis/viewAgenda/ItemHistory.do?item=2022.EX34.9</p>	In progress

	promote energy conservation and enable local renewable energy generation		consumption and generation that are needed to reach net zero.		
8	Expand biking and pedestrian infrastructure, including the rollout of cycling routes, bicycle parking and bike share at or near TTC stations	TSD, TTC, BST	The City will continue to expand active and multi-modal transportation infrastructure, building on progress made in accelerating ActiveTO, expanding Bike Share Toronto (including the pedal assist e-bike pilot program), and other initiatives.	<p>The City is advancing its Cycling Network Plan and Missing Sidewalk Link programs to provide opportunities for safe and zero emissions cycling and walking.</p> <p>The City's Cycling Network Plan's 2022-2024 Near-Term Implementation Program proposes approximately 100 centreline km of new bikeways, as well as upgrades to existing routes and studies for future implementation. In 2022, approximately 18 km of bikeways were constructed, with additional 17 km of bikeways under-construction. As of January 2023, approximately 660 centreline km of the Cycling Network Plan has been installed.</p> <p>In 2022, the City constructed 1.05 km of new sidewalks.</p> <p>Bike Share Toronto 4-Year Growth Plan 2022 – 2025 will see the system expand from 625 stations and 7,165 bikes to over 1,000 stations and 10,000 bikes by 2025.</p> <p>TTC completed a review of bike parking at all TTC stations and continued</p>	In progress

				installing the remaining bike parking inventory across various stations. TTC also worked with Bike Share to install one new Bike Share station on TTC property.	
9	Increase existing bus and streetcar service levels to encourage shifts to low-carbon, sustainable transportation	TTC, TSD, CP	The TTC's 5-Year Service Plan and 10-Year Outlook aim to move people more efficiently on transit using enhanced service levels and priority bus lanes to improve reliability, speed and capacity on some of the busiest transit routes in the city.	<p>In 2022, TTC ridership experienced a substantial recovery rising from 37% of prepandemic levels system-wide in January to 69% in December. However, the continuation of work-from-home and hybrid work arrangements are constraining further ridership recovery. TTC continues to align service levels to changes in customer demand.</p> <p>In 2022, staff completed Phase 2 of RapidTO: bus & streetcar priority. A report on the findings of Phase 2 will be presented to Executive Committee and City Council in early 2023.</p>	In progress
10	Update and accelerate implementation of city-wide Transportation Demand Management Strategy	TSD & E&C, CP, EDC	<p>Activities 2022-2025 include:</p> <p>i. The City will update, accelerate implementation, and measure the impact of the city-wide Transportation Demand Management (TDM) Strategy.</p> <p>ii. Pilot targeted residential TDM engagement in several of Toronto's communities to support the uptake of sustainable</p>	The focus in 2022 was commuter campaigns to support employers and employees Return to the Office. The Smart Commute Program supported hundreds of employers and thousands of commuters across Toronto to safely and sustainably travel during pandemic recovery and through the Return to the Office with an online web portal with resources, webinars, Smart Commute Challenge, Bike Month and Smart Commute Month campaigns.	In progress

			<p>transportation and low-carbon commuting options.</p> <p>iii. Lead community outreach and engagement campaigns to support the uptake of more sustainable modes of transportation/ commuting (including, but not limited to, promoting public uptake of active transportation, transit, carpooling and telework).</p> <p>iv. Work with Toronto-based employers and businesses to implement TDM and other sustainable transportation best practices as a part of COVID-19 recovery and rebuild process.</p> <p>v. Convene a Transportation Demand Management leaders table, which would include relevant City of Toronto divisions and agencies and would promote uptake of TDM best-practices.</p>	Resources for further planning and implementation of TDM work were not available in 2022.	
11	Develop tools to address emissions of greenhouse gases and air pollutants on an area or project level	TSD, CP, E&C	The City will develop a framework to address emission reductions of greenhouse gases and air pollutants on an area or project level, including guidance documents and technical modelling, and report back in 2023 with a framework to be implemented in 2024.	Internal discussions have been initiated to enhance staff capacity to assess current modeling methodologies used to assess transportation demand and anticipated changes in mode share over the short and long term. This will directly inform the development and assessment of planning level	In progress

				<p>transportation-based emissions profiles moving forward.</p> <p>A jurisdictional scan is underway to identify existing frameworks being used to assess transport-based emissions at the project level and how elements of these frameworks apply to the Toronto context or can be modified.</p>	
12	Align the City's Electric Vehicle (EV) Strategy to the net zero goals and implement the EV Strategy	E&C, TSD, TPA, TH, CP, FS, MLS, SDFA, CREM, EDC	<p>The City, along with its partners, will implement the City's Electric Vehicle Strategy and align it to the Net Zero Strategy goals. Activities planned for 2022-2025 include:</p> <p>i. Relevant Divisions and Agencies will report to City Council in 2023 with options for how the City of Toronto can support and encourage provision of the home and workplace EV charging infrastructure needed to accommodate growth in EV ownership to 5 per cent of registered personal vehicles in 2025 and 30 per cent in 2030.</p> <p>ii. Relevant Divisions and Agencies will report to City Council in 2023 with a strategy to meet the 2025 targets in the EV Strategy for public EV charging infrastructure and ensure that sufficient public EV charging infrastructure will be</p>	<p>A report to City Council in July 2022 provides a detailed update on EV Strategy implementation and how the EV Strategy will need to be aligned with the accelerated target of Net Zero by 2040: https://secure.toronto.ca/council/agenda-item.do?item=2022.IE31.17</p> <p>This work is a cross-corporate endeavour, involving several City Divisions, Agencies, and Corporations, working individually and in collaboration with each other.</p> <p>Work is underway to meet the accelerated 2030 community-wide target that 30 per cent of registered vehicles in Toronto are electric.</p> <p>E&C staff have identified opportunities to support and encourage provision of EV charging in existing buildings, and will build on this work in 2023 to</p>	In progress

			in place to accommodate growth in EV ownership to 30 per cent of registered personal vehicles in 2030.	evaluate and develop specific approaches the City can take.	
A) Increase public EV charging infrastructure	TSD, TPA, TH, CP, E&C, FS, CREM	The City will develop a strategy and plans to meet the 2025 targets in the EV Strategy for public charging infrastructure (220 Level 3 DCFC ports and 3,000 Level 2 ports are installed in public locations) and to ensure that sufficient public charging infrastructure will be in place to accommodate growth in EV ownership to 30 per cent of registered personal vehicles by 2030. Next steps 2022-2025:	<ul style="list-style-type: none"> i. Identify high priority public charging areas. ii. Explore potential partnerships to support development of public charging infrastructure. iii. Apply for funding (e.g. ZEVIP) and secure match funding. 	<p>The City is currently developing a long-term Public EV Charging Plan for Toronto. The Plan will:</p> <ol style="list-style-type: none"> 1. Identify where, when, how much, and what kind of public charging will be needed to support the City's goals for sustainable transportation and EV uptake; 2. Identify locations where public charging might be provided, such as on-street parking spaces, Green P parking facilities, community centre and school parking lots, commercial/retail parking lots, and other off-street parking locations; and 3. Explore the range of options for investing in and operating public charging infrastructure and identify important technical, financial, policy, and equity considerations. 	In progress
B) Increase EV charging at residential, commercial, institutional, and industrial buildings	CP, E&C, SDFA, TH	2022-2025 activities to increase EV charging include:	<ul style="list-style-type: none"> i. Mandate EV ready requirements for all new developments to ensure that buildings in Toronto will have sufficient EV charging 	In December 2021, City Council approved the introduction of EV charging infrastructure requirements in the City-wide Zoning By-law, which has the effect of extending EV charging requirements to all new buildings. Toronto Green Standard version 4,	In progress

			<p>infrastructure to accommodate growth in EV ownership to 30 per cent of registered personal vehicles and 35 per cent of commercial vehicles by 2030 and 100 per cent of all vehicles by 2050.</p> <p>ii. Provide incentives for charging infrastructure in home, public, workplace and fleet settings, as feasible and as needed to improve equity and spur EV adoption.</p> <p>iii. Expand financing options for charging infrastructure installation on private property, as feasible and as needed to improve equity and spur EV adoption.</p> <p>iv. Explore the feasibility of Toronto Hydro offering rebates for Electric Vehicle charging in residential properties during off-peak hours.</p> <p>v. Work with Toronto Hydro and the provincial regulator to remove barriers to the installation of EV charging by changing the regulations related to new electrical connections or requests for additional capacity.</p> <p>vi. Develop policies, regulations and/or programs to support</p>	<p>which came into effect on May 1, 2022 for new planning applications, includes the Zoning By-law EV Ready requirements.</p> <p>https://www.toronto.ca/legdocs/mmis/2022/ie/bgrd/backgroundfile-227899.pdf</p> <p>Financing programs promote increased EV charging infrastructure. The Home Energy Loan Program (HELP) supports single family property improvements including EV charging infrastructure.</p> <p>The City's Energy Retrofit Loan program provides low-interest loans to help building owners improve the energy efficiency of their buildings, and EV charging infrastructure can be eligible for financing.</p> <p>The City's High Rise Improvement Support program provides low-interest loans to Multi-Residential Rental buildings to improve energy efficiency, and to fund renewable energy infrastructure as a part of the financing, with limits on Above Guideline Increases to rents.</p>	
--	--	--	---	---	--

			provision of EV charging infrastructure in existing homes and workplaces.		
	C) Review the Electric Vehicle Strategy	E&C, TSD, TPA, TH, CP, FS, MLS, SDFA, CREM, EDC	The City will conduct a comprehensive review of the Electric Vehicle Strategy in 2024-2025.	The review is planned for 2024-2025.	Not started
13	Determine options to incentivize EV adoption and disincentivize use of gas and diesel vehicles	E&C, TSD, TPA, CP	<p>The City will determine options to incentivize EV adoption and disincentivize use of gas and diesel vehicles. Incentives and disincentives may be financial and/or non-financial. Activities 2022-2025 include:</p> <p>i. Advocate to other levels of government to provide/expand purchase incentives for new EVs. Advocate to both levels of government to provide incentives for purchase of used EVs. Advocate for additional taxes/fees on new internal combustion engine vehicles and use money collected to fund rebates for low-cost EVs, additional EV infrastructure and/or transit/active infrastructure (particularly in low income areas).</p> <p>Next steps:</p> <p>- Form a working group to determine the priority of preferred</p>	In 2022, the City served as the client for a University of Toronto graduate student group project “Investigating Incentives and Disincentives in the Transition to Zero Emission Vehicles in Toronto”. The City will build on this work in 2023 to further explore, evaluate and develop potential incentives to encourage EV uptake.	In progress

			<p>actions by the provincial and federal governments.</p> <ul style="list-style-type: none"> - Advocate for governments to pursue EV enabling activities or policies. ii. Explore providing purchase incentives, including potential funding sources and equity considerations and measures to mitigate the potential for increasing auto ownership rates. Incentives for EVs should be offset by disincentives for internal combustion engine vehicles. iii. Explore other incentives such as those related to parking. 		
14	Encourage the adoption of electric commercial and freight vehicles, including EVs and e-bikes for last-mile deliveries	TSD, CP, TPA, TH, E&C, FS	The City will explore opportunities and develop policies to encourage the use of EVs and e-bikes for commercial and freight transportation.	The City is partaking in the Ontario Government's "Cargo e-Bike Pilot Program" which runs from 2021- 2026.	In progress
	A) Encourage the use of e-bikes and EVs for last-mile deliveries	TSD, CP	<p>Activities:</p> <ul style="list-style-type: none"> i. In consultation with the freight industry, develop policies to encourage and facilitate use of e-bikes, cargo e-bikes and electric vehicles for last-mile deliveries. 	As of late 2022, one courier company was participating in the Cargo eBike Pilot Program. In 2023, the City aims to involve two additional courier companies.	In progress

			ii. Explore opportunities to facilitate provision of charging infrastructure and parking for e-bikes, cargo e-bikes and electric vehicles used for last-mile deliveries.		
	B) Encourage adoption of electric commercial and freight vehicles	TSD, E&C	<p>Activities:</p> <p>i. Explore opportunities to encourage and support adoption of electric vehicles for commercial and freight use, including light-duty, medium-duty, and heavy-duty vehicles.</p> <p>ii. Explore opportunities to encourage increased availability of electric light-duty, medium-duty and heavy-duty commercial and freight vehicles in the GTHA.</p>	The City will be exploring options to encourage delivery companies to transition fleets to electric vehicles through a permitting program, with reduced rates for EVs.	In progress
15	Continue to pursue policy and programmatic interventions that help the City reach its aspirational goals of zero waste and a circular economy, and which identify pathways to more sustainable consumption in	SWMS, other City divisions	The City will identify and implement new policies and operational changes across City divisions, and enter into strategic partnerships where possible, to reduce waste, maximize resources and support positive environmental outcomes through circular and sustainable consumption.	<p>Recent progress to move Toronto towards a Circular Economy includes:</p> <ul style="list-style-type: none"> • Completion of the Baseline for a Circular Toronto research project, which assessed the current state of circularity in Toronto and proposes a vision for what a circular Toronto could look like; • The launch of training resources for City staff to increase awareness and understanding of how to reduce waste and achieve circular 	In progress

<p>both municipal operations and in all sectors of the economy</p>			<p>outcomes in various purchasing decisions;</p> <ul style="list-style-type: none"> • Partnering to support the Government of Canada as it co-hosted the World Circular Economy Forum 2021, the first time that the Forum had been hosted by a North American government; • Joining the advisory group of the Circular Cities and Regions Initiative, which is helping advance circular economy knowledge sharing in the Canadian local government sector; <p>Joining the Canada Plastics Pact to support the creation of a common vision for a circular economy for plastics and innovation in the plastics value chain.</p>	
<p>A) Develop a City-wide governance structure, strategy and policy framework to establish a path to make the City the first municipality in the Province of Ontario with a circular economy and to align with the Provincial goal</p>	<p>SWMS, other City divisions</p>	<p>SWMS, with involvement and leadership from other City Divisions, will develop a Circular Economy Road Map for Toronto that will help guide the City in becoming the first municipality in the province with a circular economy. Once finalized, Toronto's Circular Economy Road Map will inform policy and program changes to advance the City's aspirational circular economy goals.</p>	<p>SWMS has developed a proposed governance model to enable cross-divisional oversight and accountability during the co-creation of a Circular Economy Road Map; and is currently recruiting representatives from divisions that were identified as key stakeholders based on various analysis, including alignment with corporate strategic priorities.</p>	<p>In progress</p>

as part of the Waste Free Ontario Act				
B) Conduct a consumption based emissions inventory and identify targets that would meaningfully reduce consumption based emissions	E&C	<p>The City will:</p> <ul style="list-style-type: none"> i. Conduct a consumption based emissions inventory. ii. Set short- and long-term community-wide consumption emission reduction targets. iii. Report back by Q2 2023. 	<p>The City is developing Toronto's first consumption-based emissions inventory (CBEI). Currently, the City is working with a consultant to undertake a baseline calculation of consumption-based emissions in Toronto. Following the baseline calculation, the City will set short- and long-term CBEI targets based on analysis, findings and recommendations.</p>	In progress
C) Enable Torontonians to reduce waste and engage in sustainable consumption by implementing the Single-Use and Takeaway Items Reduction Strategy	SWMS, other City divisions	<p>The City will:</p> <ul style="list-style-type: none"> i. Implement a voluntary measures program that enables and encourages businesses to reduce waste in their operations. ii. Introduce mandatory measures to reduce and prevent the generation of single-use and takeaway items in Toronto. 	<p>The Single-Use and Takeaway Items Reduction Strategy is aimed at encouraging and enabling businesses to take action to eliminate the unnecessary use of single-use and takeaway items in their operations along with connecting businesses to suppliers of innovative reusable container solutions and services. In June 2022 the City launched the Reducing Single Use Program to recognize businesses taking a leadership role to reduce single-use and takeaway items. In 2023, staff will be presenting proposed mandatory measures that will restrict the use of single-use items in food and non-food service establishments.</p>	In progress

16	Continue implementation of the City's Long Term Waste Management Strategy which sets a goal of diverting 70 per cent of waste managed from City customers away from landfill, by focusing on waste reduction, reuse and recycling activities that promote resource conservation and reduce environmental impact	SWMS	<p>Reduction, reuse and recycling activities include a food waste reduction strategy, textile collection and reuse strategy, supporting other reduction and reuse programs, exploring new technologies and creating a Circular Economy and innovation unit within SWMS to help Toronto reach its goal of becoming the first circular city in Ontario.</p> <p>Within the scope of the Long Term Waste Management Strategy, opportunities to explore waste reduction outside of the integrated waste management system are identified and actioned where within the scope of control of SWMS, for example, the Community Reduce & Reuse Programs and public communications for waste related information.</p>	Solid Waste Management Services continues to implement the Long Term Waste Management Strategy which includes the development of the Single-Use and Takeaway Items Reduction Strategy, Community Reduce & Reuse Programs, Food Waste Reduction and other programs.	In progress
	A) Continue outreach and engagement on waste reduction and diversion, with a focus on food and organic waste	SWMS, E&C	The City will continue to enable food and organic waste reduction and diversion among City waste customers through implementation of strategic action roadmaps such as the Long Term Waste Management Strategy.	<p>Solid Waste Management Services continues to promote food waste reduction and the Green Bin organics program to divert organic waste from landfill.</p> <p>Solid Waste Management Services continues to partner with the National Zero Waste Council with other municipalities and private sector</p>	In progress

				<p>partners across Canada on the Love Food Hate Waste campaign to raise awareness about the issues of food waste and provide residents with tips to reduce their own food waste. Community Reduce & Reuse Programs also support outcomes of the Food Waste Reduction through community composting efforts and the redistribution of surplus harvests from gardens of single-family residential homes.</p>	
17	Increase canopy cover and biodiversity and enhance greenspaces	PFR	Over 2022-2025 the City will continue to increase tree canopy cover including prioritizing tree planting programs on both public and private lands to help achieve a more equitable distribution of canopy cover across the city. In collaboration with multiple City divisions, the implementation of the Strategic Forest Management Plan, Parkland Strategy, Ravine Strategy and Version 4 of the Toronto Green Standard will continue to contribute to canopy, biodiversity and greenspace goals.	Multiple City divisions are working collaboratively to increase canopy cover and improve the quality of greenspace across the city. The City planted 120,000 trees and shrubs in 2022.	In progress
	A) Achieve equitable distribution of the urban forest, increasing tree	PFR	In collaboration with other City divisions, Parks, Forestry and Recreation will continue to protect existing trees and increase tree canopy cover where it is currently	Urban Forestry is using a tree equity approach together with other City divisions to help improve the equitable distribution of tree canopy at the neighbourhood scale. Urban Forestry	In progress

	canopy and naturalized greenspace where it is most needed		lacking, creating more equitable distribution of the valuable services and benefits the urban forest provides.	has performed tree equity score analysis on the city's 140 neighbourhoods.	
18	Support resident-led climate action and engagement	E&C	Over 2022-2025, the City will continue to implement city-wide climate action engagement under the Live Green Toronto banner. Outreach will be focused on those most impacted by climate change and equity deserving groups to lead and implement local climate action.	<p>This work is ongoing. Milestones for 2022 included the launch of community-led climate action collective impact process led by the Centre for Social Innovation and the Toronto Climate Action Network as well as supporting the development of an Indigenous environmental network with the Indigenous Affairs Office.</p> <p>The City continues to ramp up its climate engagement at major and minor events, with over 100 event days in 2022.</p> <p>The City relaunched the Live Green perks app to incentivize resident actions that help towards our TransformTO goal – including walking more, and supporting local businesses.</p>	In progress
	A) Support resident-led climate action engagement through Climate Action Grants	E&C	Over 2022-2025, the City will scale up and design new grant programs including those directed to Indigenous communities and youth.	<p>Youth Climate Action Grants (YCAG) provide funding to support Toronto District School Board (TDSB) student-led projects, activities and events that directly or indirectly reduce GHG emissions.</p> <p>The first full round of YCAG grant applications opened in September,</p>	In progress

				<p>2022. Funding awards were provided in January 2023.</p> <p>With Indigenous communities, the City is co-developing a dedicated Indigenous climate action grants fund to be launched in 2023.</p>	
	B) Expand Neighbourhood Climate Action Champions Program	E&C	Over 2022-2025, the City will continue to implement city-wide climate action engagement, specifically continue and scale-up the Neighbourhood Champions program through 2030.	Since 2020, the City recruited and trained 50 Toronto residents to engage and initiate local climate action projects in their communities. To date, there are 20 community-led climate action projects being implemented across the city.	Complete (ongoing)
19	Work with Indigenous rights holders and urban Indigenous communities to share knowledge and learnings	E&C, IAO	<p>The City will develop a plan for meaningful, in-depth, respectful, and ongoing engagement with local Indigenous communities to provide feedback on City's Strategy implementation. 2022-2025 activities include a climate action grants program as well as:</p> <ul style="list-style-type: none"> i. Ensure TransformTO policies, programs and services are developed with and for Indigenous communities to ensure a just economic transition. ii. Ensure opportunities for Indigenous representation in TransformTO engagement and advisory processes. 	<p>The City continues to foster partnerships with Toronto's Indigenous communities by supporting local climate action projects and co-developing a dedicated Indigenous climate action grants fund to be launched in 2023.</p> <p>E&C has hired an Indigenous project lead to engage directly with Indigenous communities.</p> <p>E&C and the City's Indigenous Affairs Office are facilitating a series of gatherings with Indigenous individuals and groups in Toronto working in land stewardship/ earth work/ climate justice. This informal network of approximately 60 people has been exploring barriers and opportunities to urban Indigenous</p>	In progress

			<p>iii. Explore ways to reflect and take action on responses from the Indigenous Climate Action Summary Report, such as to measure and communicate progress that speaks to broader questions such as "Are we good ancestors?" or "How are we honouring the land, water, and all our relations?"</p> <p>iv. Implement Reconciliation Action Plan.</p> <p>v. Connect with Indigenous Affairs Office and Placemaking Advisory Circle on future placemaking and place-keeping initiatives.</p>	<p>climate action and ways in which support can be provided. This learning will supplement that of the Climate Advisory Group.</p> <p>To answer questions brought by the Indigenous Climate Action Summary Report, E&C is committed to continuing to review and reflect on responses from the report and to continuing to reflect on learnings from the Indigenous community more broadly.</p> <p>E&C is implementing the Reconciliation Action Plan.</p>	
	A) Develop and deliver Indigenous Climate Action Grants program	E&C	Over 2022-2025, E&C will work with the Indigenous Affairs Office to design and deliver a new grant program dedicated specifically to local Indigenous climate action.	E&C and the City's Indigenous Affairs Office hosted several Indigenous community gatherings and are designing dedicated Indigenous climate action grants with the community (to be formally launched in 2023, pending budget).	Complete (ongoing)
20	Develop and implement youth engagement strategy	E&C	Over 2022-2025 the City will develop and implement a youth engagement strategy, launch an academic innovation hub, and continue to involve youth in developing and implementing the Net Zero Strategy.	To broaden opportunities for youth engagement in climate action, the City is partnering with community and academic sectors in Toronto to develop a Youth Engagement Strategy. The engagement process is anticipated to launch in 2023, with strategy being completed by March 2024.	In progress

	A) Design and launch a City-academic innovation hub to support youth-led climate initiatives and innovative student pilot projects	E&C	Over 2022-2025, the City will design and establish an innovation hub where City staff, youth, students, faculty, and community will work together to design innovative local projects.	It is anticipated that the Youth Engagement Strategy co-development process with local academic institutions planned for 2023-4 will result in development of an innovation hub.	In progress
21	Design and launch a climate advisory group for 2022 and beyond to ensure implementation of the Net Zero Strategy is equitable and reflects the priorities and interests of the community	E&C	The Net Zero Advisory Group will be updated and refreshed as the City moves from design of the Net Zero Strategy in 2021 to implementation over 2022-2025.	City Council adopted draft terms of reference for the Climate Advisory Group (CAG) in May 2022 (2022.IE29.10). The CAG launched with its first meeting in October 2022 to provide advice, facilitate ongoing communication and guide the effective and equitable implementation of the TransformTO Net Zero Strategy. The CAG has 26 members, both individuals and representatives from organizations, who were selected for a 3-year term to act as advisors, champions and reviewers of the policies, programs and initiatives under development.	Complete
22	Develop equity indicators to be reported on as part of the TransformTO	E&C	Staff will be developing equity indicators where possible and reporting on them regularly.	Staff have been exploring approaches, and work is planned for 2023 to align with carbon accountability reporting.	In progress

	implementation status update				
23	Encourage the growth of green industry to provide the products and services needed to enable a net zero city	EDC	<p>The City and partners will encourage the growth of the green industries to enable net zero.</p> <p>2022-2025 activities:</p> <ul style="list-style-type: none"> i. Work with Toronto's green industries to undertake market research of key products and services required to achieve the Net Zero Strategy targets and goals and to provide a report to Council by Q3 2024. ii. Develop green industry growth roadmaps for each green sector, including a workforce development plan (a low-carbon job strategy), in partnership with Toronto's green industries and report back to Executive Committee – 2023 through 2024. iii. Consult with the local green industries on the opportunities to develop green industries cluster management organizations and identify the preferred form of the organization or organizations and the necessary steps to achieve implementation – by 2023. 	<p>The City is identifying a short list of products and services critical to Net Zero progress and will begin establishing the baseline data on current deployment rates.</p> <p>A green industry profile is underway, and work has started in partnership with industry on roadmaps for the sustainable transportation sector, with a report planned for 2023.</p> <p>The City established an advisory committee of leading individuals in the academic/ industry/ NGO sectors engaged in green industry and undertook a series of consultations with green industries in 2022. A report is planned for 2023.</p>	In progress

			(The proposed timelines for these actions are contingent upon additional funding).		
24	Leverage Live Green Toronto to develop and implement a city-wide climate action awareness campaign	E&C	Over 2022-2025 the City will develop and implement a city-wide climate action awareness campaign.	Launched a comprehensive campaign to raise awareness of the City's net zero by 2040 target and actions residents can take to help reduce emissions. The campaign includes significant media buys in direct mail, print, broadcast (radio and television), digital, social and out-of-home.	Complete (ongoing)
25	Develop and apply a Climate Lens in decision-making	E&C, CFO	The City will continue to advance a climate lens systematically including climate priorities, opportunities and risks in decision making. Activities over 2022-2025 are outlined below.	To support capacity development of City staff with respect to how projects and programs can be assessed from a climate perspective, E&C is rolling out an internal Climate Hub website for staff, which features a Climate Lens Guide, Climate View GIS mapping tool, Climate Policy Map, a three-module Climate 101 training course and other resources.	In progress
	A) Implement a Climate Lens Program	E&C, CFO	A Climate Lens Program integrates climate considerations in all new operating programs and capital projects and builds staff competency to assess both climate change mitigation and adaptation impacts. The City will:	Climate Lens resources on Climate Hub are now available to assist staff with respect climate lens assessments of any existing projects and programs. E&C is working on an overarching carbon accountability structure that will drive decisions on aligning existing programs, services and assets with Council-adopted GHG emission reduction goals.	In progress

			<p>- Apply climate lens to all new operating and capital projects by 2022.</p> <p>- Apply climate lens to all existing programs, services, and assets by 2024.</p>		
B) Report on climate risks to assets	E&C, CFO, AS	The CFO to report on all major climate risks associated with existing programs, services and assets, identified via the Climate Lens Program, to Council by 2024, and Council to direct the appropriate Divisions/Agencies to address risks in future capital planning. The CFO is to also provide ongoing annual updates on the City's climate risks as part of its annual consolidated financial statements.	The City is developing an analysis of climate risks facing the City's assets and infrastructure, and the associated financial risks, for the Long Term Financial Plan. Staff also continue to evolve the City's practice of releasing annual disclosures according to the Task Force on Climate-Related Financial Disclosures (TCFD) guidelines, which includes within scope climate risks to City assets and infrastructure.	In progress	
C) Enhance Sustainable Procurement	E&C, SDFA, PMMD	<p>Align procurement policies with the following climate lens objectives:</p> <ol style="list-style-type: none"> 1. Integrate climate considerations into strategic decision-making 2. Build staff climate competency and leadership 3. Increase climate accountability 4. Increase transparency through reporting 	PMMD is supporting a variety of corporate climate initiatives with the development of procurement-related tools and implementation of training. PMMD staff supported the development of updated procurement templates and guidance on the Toronto Green Standard v.4 and embedding Cool Food Pledge reporting requirements in procurement templates for purchases of food. The City's Circular Procurement online training was made mandatory for	In progress	

			<p>5. Monitor climate performance</p> <p>This action targets reporting in Q2 2022 and implementation into 2023.</p> <p>Enhancing sustainable procurement will also include working toward reducing emissions from food by 25 per cent by 2030 relative to a 2019 base year as per the City's Cool Food Pledge, and in alignment with the City's C40 Good Food Cities Declaration. Staff will report back on the status of corporate food-related emissions and recommended actions through Net Zero's status update on implementation in Q2 2025.</p>	<p>relevant PMMD staff and is due to be completed in early 2023.</p> <p>Following preliminary work on sustainable procurement policies, it was determined additional resourcing was required for this work, which was approved through the 2023 Operating Budget. As such, development of a sustainable procurement strategy is planned to start in 2023, with a target report back in Q3 2024.</p>	
	D) Consider a carbon offset purchase policy and update the Carbon Credit Policy	CMO	Consider a carbon offset purchase policy and review the Carbon Credit Policy in a way that prioritizes achieving local emission reductions	E&C staff have consulted internally on a carbon offset credits policy proposal that would govern the Corporation's approach to the purchase and sale of credits within the context of the City's net zero goal. The proposal is based on authoritative scientific and governance guidance on the valid use of carbon credits in achieving net zero emissions at a jurisdictional or organizational level. Details on the offset credits policy will be included with a report on the	In progress

				carbon accountability system to City Council in Q2 2023.	
26	Design and implement a Toronto Carbon Budget	E&C, CFO	Design a Toronto Carbon Budget and associated key performance metrics, which aligns with the City's financial budgets, to manage corporate and community GHG emissions within an absolute limit.	The City is currently developing a carbon accountability system which will drive future year implementation of the TransformTO Net Zero Strategy by providing a structure for systematic and transparent decisions in the context of absolute carbon budgets. Details on the carbon accountability system are being reported on to City Council in Q2 2023.	In progress
27	Ensure net zero City-owned buildings	CREM, CP, E&C	Transitioning City-owned buildings to be net zero buildings.	The City's Corporate Real Estate Management Net Zero Carbon Plan applies to all City-owned facilities. The City will achieve a net zero emissions building portfolio by 2040. Since adoption of the plan by City Council, the City has initiated the following measures: <ul style="list-style-type: none"> - Integrating net zero carbon retrofit measures into our asset planning and capital planning processes - Developing net zero carbon transition plans for key City facilities - Developing standardized low-carbon building system specifications for City projects. 	In progress
	A) Constructing new City-owned buildings to net	CREM, CP	Update construction processes and design standards to include a requirement to construct new City buildings to Toronto Green	In 2022, construction began on what will be Toronto's first Net Zero energy and emissions community recreation facility, the North East Scarborough	In progress

zero on a go forward basis		Standard Version 4 Tier 4, to identify a net zero target in the design/construction procurement process and to identify planned facility construction projects for compliance.	Community and Child Care Centre. The building's leading-edge design uses innovative strategies to eliminate the use of fossil fuels, reduce overall energy consumption and incorporate on-site renewable energy systems. It will be 100 per cent electricity powered through a mix of solar photovoltaic panels on its roof and facade, as well as a parking lot canopy. Going forward, all new community recreation facility builds will be Net Zero.	
B) Pursuing a Net Zero Carbon Plan for existing City buildings	CREM, E&C	In July 2021, City Council adopted CREM's Net Zero Carbon Plan. This Plan provides a road map to achieve net zero emissions in City buildings first and foremost through changes to facility utilities consumption. It offers seven initiatives to reach this goal, including, fuel switching and efficiency retrofits, lower-carbon new builds, strategic divestment, on-site renewables and storage, training and education, enhanced use of building performance data and carbon offsets and off-site renewables. The Plan focuses on making the right investments into City buildings in order to meet the targets set by City Council. The Plan would be delivered by CREM in collaboration with other City	In 2022, the following actions were taken to begin implementation of the seven key initiatives in the Net Zero Carbon Plan: <ul style="list-style-type: none"> • City-wide working groups were established to align City processes with net zero carbon goal; • A standardized scope of work was developed for net zero feasibility and climate change resilience studies. This scope will be integrated into all Building Condition Assessments going forward; • Net zero feasibility studies were initiated or completed at: City Hall, Metro Hall, North York Civic Centre, Scarborough Civic Centre, East Animal Shelter, West Animal Shelter, and St. Lawrence Hall; 	In progress

			<p>Divisions and Agencies. Work is underway to integrate the Plan into the capital planning process, with the expectation that the Plan will be incorporated into the 2023 budget process.</p>	<ul style="list-style-type: none"> • Emission reduction projects were underway at: Etobicoke Olympium, 14 St. Clemens, EMS Station 12, and the Mount Dennis Childcare Centre; • Federal funding applications were submitted for emission reduction projects at Toronto Animal Services, Metro Hall, and St. Lawrence Hall; • An RFP was issued for standardized equipment and project specifications to support capital and operational net zero work; • Recommissioning was initiated for the geoexchange system at McGregor Arena; • Collaboration with the Canada Infrastructure Bank to perform high-level audits at 10 City facilities in support of future funding opportunities; • Ongoing discussions with CreateTO and ModernTO regarding strategic divestment of City assets and emission reduction opportunities. <p>An example of City progress in this area is the net-zero retrofit of City-owned Waterfront Neighbourhood Centre & School which has been completed. The building includes a lake-based hydrothermal system to eliminate fossil fuel use in the building.</p> <p>https://www.toronto.ca/services-</p>	
--	--	--	--	--	--

				payments/water-environment/environmentally-friendly-city-initiatives/greening-city-operations/energy-conservation-management/city-waterfront-building-627-635-queens-quay-w/ Toronto Water is designing a 3.5 MW solar photovoltaic system and a 6.3 MW battery energy storage system at the Island Water Treatment Plant that will offset 40-60% of the plant's annual power consumption from the grid. Once commissioned, the project will be the largest solar installation in Toronto.	
28	Reduce emissions from City and Agency-owned vehicles	FS, TTC	Over 2022-2025 the City will continue to reduce GHG and air pollutant emissions from City-owned and operated vehicles, fuels and practices.	City Fleets' climate mitigation and adaptation strategies and actions have been recognized for their successes and as an example of effective local leadership on climate action. Initiatives undertaken by City Fleets made a significant contribution to overall City emissions reductions. To date we have eliminated approximately 190 kilotons of greenhouse gas emissions, a 42 per cent reduction from 1990 levels. The City of Toronto has been established as a Canadian leader in testing and adopting zero-emission vehicle technologies, alternative fuels, and efficient fleet management practices	In progress

	<p>A) Update and implement the Sustainable City of Toronto Fleets Plan to support the transition of 20 per cent of City fleet to zero-emission by 2025 and 50 per cent by 2030. Starting in 2022, for any light duty vehicle being purchased by the City, the City will select only the electric version of this vehicle where operationally feasible.</p>	<p>FS</p>	<p>Activities include:</p> <ul style="list-style-type: none"> i. Accelerate transition of City Fleets to sustainable, climate resilient, carbon-neutral operations by 2040. ii. Expand City's corporate EV charging infrastructure (1,200 charge ports by 2025, and 2,400 charge ports by 2030). iii. Identify needs and opportunities for providing EV charging for City staff and members of the public. iv. Develop associated policies, operational procedures, training and instructional material, and promotional material. 	<p>Updated Sustainable City Fleets Plan is being presented to the City Council in April 2023.</p> <p>Seven per cent of current City Fleet vehicles are zero-emission vehicles (ZEV). Non-specialized light duty vehicles are being replaced with ZEV equivalents. A significant engineering and operational evaluation work are underway in partnership with the industry, focusing on the medium- and heavy-duty vehicles.</p> <p>Expenditure on corporate EV charging network currently has 145 charge ports at 72 locations, to enable and support accelerated transition of City-owned vehicles to ZEV.</p> <p>In 2022, City Council adopted a plan to replace the City's ferry fleet over the next 15 years with fully electrified ferries.</p>	<p>In progress</p>
	<p>B) Implement the TTC Green Bus Program to achieve target of 20 per cent of TTC buses zero emission by 2025-2026</p>	<p>TTC</p>	<p>Implement TTC Green Bus Program.</p>	<p>The TTC operates one of the largest zero-emission bus fleet in North America, with 60 battery electric buses in operation and also 255 latest generation hybrid-electric buses with limited EV mode capability. The TTC has committed to only procuring zero emissions propulsion technology from 2024 onwards and the Green Bus Program is tracking toward completion</p>	<p>In progress</p>

				<p>three years ahead of the 2040 target. This switch to battery electric buses is providing many benefits including fuel savings of \$40,000 per year per bus and an estimated 25 per cent in maintenance cost savings, while also resulting in reduced noise and improved local air quality. In 2022, TTC signed an agreement with PowerON Energy Solutions LP, for the delivery, maintenance and operation of electrification infrastructure needed to transition the TTC's fleet and facilities to zero-emissions.</p>	
29	Encourage City staff to adopt sustainable and climate positive practices at work and in their commutes	E&C	Over 2022-2025 the City will encourage staff to adopt sustainable, low-carbon practices by implementing the Live Green @ Work Strategy alongside the Smart Commute Toronto program.	Smart Commute delivered return-to-office resources to support and promote sustainable commuting. The Smart Commute Program has supported the Toronto Public Service across Toronto to safely and sustainably travel during pandemic recovery and through the Return to the Office with an online web portal with resources, webinars, transit & Bike Share Toronto discounts, Smart Commute Challenge, Bike Month and Smart Commute Month campaigns.	In progress
	A) Implement Live Green @ Work Strategy	E&C	The Live Green @ Work Strategy: Staff engagement and organizational citizenship behaviour directed toward the environment encourage City employees to engage with climate	Monthly Live Green @ Work discussions and Lunch & Learn sessions were hosted, open to all City staff.	In progress

			action. This activity is important to the City as a green employer.		
	B) Encourage City staff to take transit, carpool, cycle or walk rather than drive alone to work, through the Smart Commute program	E&C	<p>Update the online tool that assists staff in finding sustainable commute options (transit routes, cycling routes, carpool matching).</p> <p>Conduct a commuter survey for City staff to identify current commuting practices and opportunities for assisting staff in reducing the carbon footprint of their commutes.</p>	In 2022 the City launched the updated Smart Commute Online Tool to assist staff in finding sustainable commute options including carpool partners. A commuter survey of City staff was taken in partnership with Pollution Probe to determine commuting patterns and quantify the GHG emission reductions of telework.	Complete
30	Lead by example in managing waste and producing renewable energy from biogas at City facilities	SWMS, TW, CREM	The City will build on existing programs to lead by example in managing waste and producing renewable energy from biogas at City facilities, as described below.	The City, working with Enbridge Gas Inc., has installed infrastructure at the Dufferin Solid Waste Management Services Facility that allows it to create renewable natural gas (RNG) from Green Bin organics. The new equipment enables the City to take the raw biogas produced from processing Green Bin organics, turn it into RNG and inject it into the natural gas grid for use by the City. The RNG produced will be blended with the natural gas that the City buys to create a lower-carbon fuel blend that will be used across the organization to power vehicles and heat City-owned facilities, allowing for a reduction in GHG emissions across the organization. The production of RNG from biogas has the environmental benefit of closing the carbon loop by	In progress

				capturing the biogas produced (as opposed to flaring/burning), upgrading the biogas to RNG pipeline quality, and then using it to displace a fossil fuel with renewable green fuel.	
A) Begin development of a third organics processing facility with renewable energy, targeting completion by 2028	SWMS	SWMS will build a third organics processing facility (OPF) with renewable energy. Diversion of organics from landfill and processing through the facility will contribute to a reduction in GHG emissions. In addition, Landfill gas control and utilization from Green Lane and Keele Valley landfills will contribute to this target.		The City plans to start constructing a new, third anaerobic digestion facility to be operational in 2028 to increase the City's local processing capacity and reduce the need to haul organic material outside the City, thereby reducing fuel consumption and GHGs. The project will include the review and implementation of renewable energy options for the use of the biogas generated at the new facility. Solid Waste Management Services awarded the engineering services contract to plan, conceptualize and prepare the preliminary design for the third Anaerobic Digestion facility.	In progress
B) Produce renewable natural gas from the Disco Road Organics Processing Facility, Dufferin Organics Processing Facility and the third organics	SWMS	SWMS will continue to capture biogas for beneficial use. The City has implemented renewable natural gas (RNG) processing at the Dufferin organics processing facility, and is currently working at the Disco Road organics processing facility to produce RNG from Green Bin organic waste, which will be injected into the natural gas grid		The Disco Road Solid Waste Management Facility is the next facility to receive RNG infrastructure with plans to have this site up and running by early 2024. The City is currently in the planning stages for the development of RNG infrastructure to use landfill gas from the Green Lane Landfill site.	In progress

<p>processing facility (target completion by 2028) and landfill gas control and utilization systems at Green Lane and Keele Valley Landfills (target completion by 2026).</p>		<p>for City use. The RNG produced will be blended with the natural gas that the City buys to create a low-carbon fuel blend that will be used across the organization to power vehicles and heat City-owned facilities, allowing for a reduction in GHG emissions Citywide.</p> <p>The City has also identified potential biogas and landfill gas upgrading opportunities at other City waste facilities including the Green Lane and Keele Valley landfills and a future third organics processing facility.</p>		
<p>C) Produce and use biogas from wastewater</p>	<p>TW</p>	<p>Toronto Water will continue to make better use of biogas through production of renewable energy at its facilities.</p>	<p>Whenever possible, the City's wastewater treatment plants produce and use biogas to displace natural gas usage. In 2021, biogas usage at these facilities resulted in the avoidance of 8.9 million m³ of conventional natural gas and the associated avoidance of the equivalent of 17,200 tonnes of CO₂ emissions.</p>	<p>In progress</p>
<p>D) Divert waste from landfill in City-owned facilities</p>	<p>CREM, SWMS</p>	<p>Waste generated at City-owned facilities is diverted from landfill, reducing associated GHG emissions.</p>	<p>Office staff support the City's waste diversion targets. Waste audits and tracking reports keep this front of mind. Eco-emails remind staff to embed care for the planet in their day to day activities at work.</p>	<p>In progress</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
MLS – Municipal Licensing & Standards
PFR – Parks, Forestry & Recreation
PMMD – Purchasing & Materials Management
SDFA – Social Development, Finance & Administration
SWMS – Solid Waste Management Services
TH – Toronto Hydro
TSD – Transportation Services
TTC – Toronto Transit Commission
TW – Toronto Water