

APPENDIX 1: OVERVIEW OF CITY OF TORONTO STRATEGIES, POLICIES, PROGRAMS, AND INITIATIVES

This appendix provides a summary of the initiatives detailed in the following section.

Table 1 - Overview of City of Toronto Strategies, Policies, Programs, and Initiatives

Section	Strategies, Policies, Programs, and Initiatives	Relevancy to Public EV Charging – Overview
Strategic Guiding Documents	<ul style="list-style-type: none"> • Official Plan • TransformTO Net Zero Strategy • The Electric Vehicle Strategy 	Provide over-arching guidance and direct or indirect justification for pursuing the Approach to Public EV Charging.
Strategies, Policies, and Initiatives Directly Related to Electric Vehicles	Selection of initiatives, including: <ul style="list-style-type: none"> • Toronto Parking Authority EV Charging Program • On-Street Electric Vehicle Charging Stations Pilot • City-Wide Parking Framework 	Provide reference examples, strategies, and lesson learned opportunities to apply to the Approach to Public EV Charging.
Strategies, Policies, and Plans Related to Transportation and Streetscapes	Selection of initiatives, including: <ul style="list-style-type: none"> • Toronto Streetscape Manual • Vision Zero Plan • Cycling Network Plan • Transit Expansion Plan 	Provide insight into other transportation-related initiatives in the City and opportunities to coordinate efforts.

List of City Plans, Policies, Programs related to EVs

The Official Plan - The Official Plan is the City's primary land use planning document. The Official Plan contains policies which guide where and how the City grows its housing, commercial, and employment areas, ensures the stewardship of the City's green spaces, and directs expansion and improvement of the City's transportation network, among other directions. At a high-level, the Official Plan provides over-arching guidance for increased sustainability of the transportation system, to which the realization of the Approach to Public EV Charging would contribute to.

TransformTO Net Zero Strategy outlines a pathway to achieve net zero emissions community-wide by 2040, including:

- 45 per cent greenhouse gas reduction by 2025 and 65 per cent by 2030 (from 1990 levels);
- 30 per cent of registered vehicles in Toronto are electric; and
- 75 per cent of school/work trips under 5km are walked, biked or by transit.

The TransformTO Net Zero Strategy Short-term Implementation Plan (2022-2025) includes an action that this report responds to directly: "The City will develop a strategy and plans to meet the 2025 targets in the EV Strategy for public charging infrastructure, 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."

Toronto Parking Authority EV Charging Program - The Toronto Parking Authority (TPA) is the largest municipally owned commercial parking operator in North America. At present, the TPA manages over 40,000 on- and off-street parking spaces and operates an additional 18,000 off-street spaces for several other city agencies and private entities. As of June 2024, TPA was also the largest municipally owned operator of EV chargers in Canada, with 443 EV charge ports deployed. The TPA Charging Program directly supports the implementation of public EV charging infrastructure within the city.

On-Street Electric Vehicle Charging Stations Pilot - In October 2020, the City of Toronto launched residential and downtown on-street charging pilots to collect valuable information on charging station utilization, GHG impacts, costs, revenues, and measures for future installations. The pilots were successfully concluded in 2022 and led to the installation of 32 new charging stations before the end of 2022. In addition to the new charging stations, the pilots helped to establish a new framework for inter-agency collaboration that will help expedite the roll-out of publicly available on-street EV charging stations city-wide in the coming years.

The Atmospheric Fund's EV Station Fund Program - The Atmospheric Fund (TAF) launched the EV Station Fund in January 2022 to support the installation of up to 294 charging stations across the Greater Toronto and Hamilton Area (GTHA). The program is funded through Natural Resources Canada's Zero Emission Vehicle Infrastructure Program (ZEVIP) and provides applicants with technical and financial support, including up to a 50% contribution towards the costs of installing EV charging infrastructure. The program represents a potential funding resource for the implementation of public EV charging infrastructure within the city.

City-Wide Parking Framework- The City is developing a city-wide *Parking Framework* for Toronto to support major city-building objectives including climate change and GHG reduction housing affordability and *the efficient movement of people and goods*. Parking also plays a critical role in supporting the City's vibrancy and commitment to the growth of vital industries and businesses that attract daily visitors to Toronto. Parking for electric vehicles will be a key consideration for the *Framework*, including increasing access to on- and off-street charging opportunities in both residential and commercial areas.

Requirements for Electric Vehicle Charging Infrastructure in New Developments - Toronto's Zoning Bylaw and the Toronto Green Standard include requirements for provision of EV charging infrastructure in new developments in Toronto. The provision of electric vehicle charging infrastructure within new developments could impact the overall demand for public EV charging within the City, as more users have access to at home charging options. The influence of electric vehicle charging requirements in new

developments will be considered as part of ground level assessments for deploying chargers.

Sustainable City of Toronto Fleets Plan - The City is leading by example by transitioning the City's fleet of more than 10,000 vehicles and equipment to sustainable, resilient, net-zero operations by 2040. City vehicles are an essential component of the delivery of City programs and the provision of public services. City vehicles are the second highest source of the City's corporate emissions at 40%, following buildings at 46 per cent. By modeling how to electrify a corporate vehicle fleet, City of Toronto can play an important role in the market transition to ZEVs, including lowering barriers to ZEV adoption.

Vehicle-for-Hire Net Zero Strategy - In October 2023, the City adopted a net zero by 2030 requirement for the vehicle-for-hire industry, which was supported by input from the Vehicle-for-Hire Net Zero Working Group, other stakeholders, and academic research. The planning and deployment of public electric vehicle charging would need to also support vehicle-for-hire charging needs. Thus, the findings of the upcoming staff report should be reviewed for applicability to the Approach to Public EV Charging.

Toronto Hydro Climate Action Plan - Considering Toronto Hydro's foundational role in building and operating the distribution system that will support an electrified future, Toronto Hydro developed an industry-leading Climate Action Plan (CAP) to help facilitate the City's net-zero 2040 vision. Toronto Hydro's CAP identified two key areas of focus:

- **Expanded Electricity Distributor:** Toronto Hydro must substantially expand and modernize its existing, regulated electricity distribution business to build a grid capable of supporting the City's TransformTO Net Zero Strategy. Significant investments in non-wires alternatives and intelligent grid technology will optimize existing grid capacity. Expanding investments in poles and wires will improve reliability and enable the electrification of transportation and buildings at an affordable cost. The Expanded Electricity Distributor initiative is focused on direct action Toronto Hydro can take to support local climate goals.
- **Climate Advisory Services:** This area involves working closely with customers, cleantech companies, funders (such as Natural Resources Canada) and other stakeholders to remove barriers and enable efficient electrification of critical sectors, such as transportation and buildings. This initiative is focused on Toronto Hydro facilitating action by customers and other third parties to support local climate goals.
- Toronto Hydro has recently established a dedicated team of Customer Connection Associates to guide customers through all types of connection processes. Provide customers with a knowledgeable advice will ensure consistent customer experience for those who want to make an EV connection in their home or business.
- Toronto Hydro's system-wide mapping tool which is currently under development will help Toronto Hydro customers quickly check the capacity to connect their solar, storage or electrification project. This visualization of available capacity will

assist customers in planning their projects while allowing the utility to optimize planning, costs, and lead time for renewables and load growth. Toronto Hydro is planning to launch an initial hosting capacity address lookup tool in Q1 2025.