



TORONTO PARKING AUTHORITY

EV Program Update

Phil Safos, Director, Business Development and Partnerships
Board of Directors' Meeting
May 27, 2022

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BIG BET #1 – Transform our EV Charging Network

Phase One Deliverables



2022 > 50+

2023 > 250+

2024 > 500+

May 2022 Progress Update

Project	Status	Indicator
Electrical site readiness assessments	Completed Q1 2022	●
Develop new EV branding and signage	Completed Q2 2022	●
Develop EV strategy and deployment plan	On track: Q2 2022	●
TPA tender construction for EV installations at 6 off-street facilities	On track: tenders released and project will be delivered Q4 2022	●
Partnership with Toronto Hydro: deploy 23 new and 9 upgraded EV chargers at 5 off-street facilities	On track: delivery end of 2022	●
Submit funding applications for Zero Emission Vehicle Infrastructure Program via both NRCAN and TAF	2021 NRCAN application for Phase 1: in progress 2022 NRCAN application for Phase 2: due Q3 2022 2022 TAF application: approved (total \$103,000 for 20 EVs)	●
Explore strategic partnerships to drive usage with high volume customers	EOI targeted for Q3/Q4 2022	●



BIG BET #1 – We will over-deliver on our 2022 deployment targets

TPA Phase One

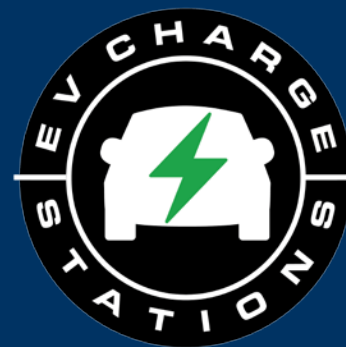
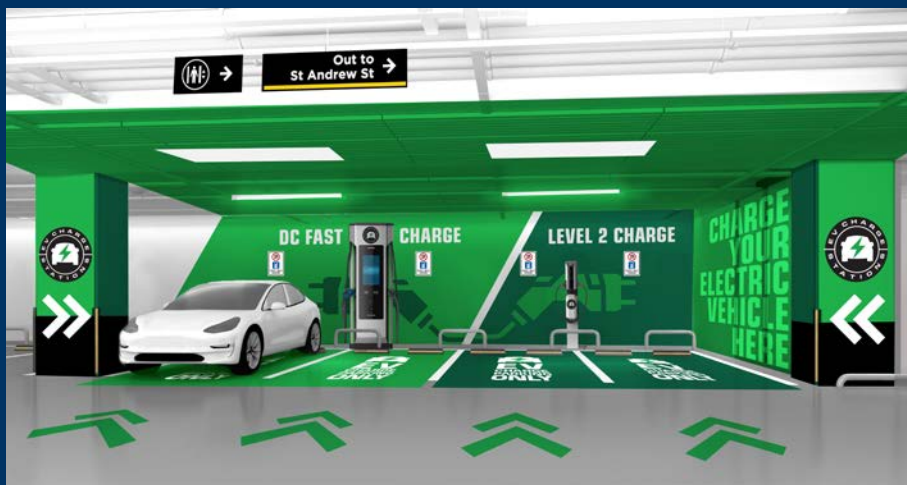
Location	L2	DCFC	Total
1 CP43 2 Church St	24	4	28
2 CP29 75 Holly St	28	1	29
3 CP304 9 Wellesley St	8	0	8
4 CP51 365 Lippincott	10	0	10
5 CP87 14 Arundel	8	0	10
6 CP110 1612 Danforth	2	0	2
Totals	80	5	85

On-Street Pilot Expansion

- Up to 32 Level 2 EVs
- 7 Wards
- Deployment Q4 2022

TPA/Hydro Pilot

Location	L2	DCFC	Total
1 CP36 City Hall	8	3	11
2 CP34 Yonge-Dundas	8	0	8
3 CP286 51 Dockside	5	0	5
4 CP262 10 Soho	4	0	4
5 CP13 20 Delisle	4	0	4
Totals	29	3	32



TPA is deploying EV installations in 3 phases



* Phase 2 and 3 will be defined (# of chargers, locations) as part of TPA EV Strategy and Deployment Plan and City of Toronto Public EV Infrastructure Plan

** TPA plans to operate 45 on-street EV chargers as part of transition of the current on-street pilot with Transportation Services and Toronto Hydro in 2023

TPA is engaging with industry experts to support our EV program delivery

	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	2023	2024+
Phase 1 and 2: EV Charging Strategy & Deployment Plan (IBI Group/Dunsky)							
Phase 1: EV Site Readiness Assessments (WSP)							
Phase 1: EV Detailed Design, Tendering and Contract Admin (WSP/CIMA)							
★ Phase 1: Construction and Installation Tenders (Various Contractors incl. Energy Networking Services Inc.)							
★ Phase 2: EV Site Readiness Assessments, Detailed Design, Tendering and Contract Admin (WSP/CIMA)							
Phase 2: EV Construction and Installation Tenders (TBC)							
Phase 3: Transition Assets and Assume Operation of On-Street EV Chargers from Toronto Hydro Pilot to TPA							
Phase 3: Development of On-Street Standards Specifications, Siting Criteria, Site Readiness Assessments, Detailed Design, Tendering and Contract Admin (TBC)							
Phase 3: EV Construction and Installation Tenders (TBC)							

★ Subject to Contract Award, TPA Board of Directors Meeting on May 27, 2022

Contract Award – Electric Vehicle Infrastructure (CP 29/43/304) – PA30.7

- Contract award recommended to Energy Networking Services Inc.
- Scope includes the construction and installation of electrical infrastructure and equipment
- Total budget of \$1,365,000 including contingency
- Funded through TPA 2022 Capital Budget and 2023 – 2031
- TPA has included the costs associated with this contract in its application for funding through Natural Resources Canada's (NrCAN) Zero Emission Vehicle Infrastructure Program (ZEVIP).

**Construction Package Includes 65
EV Chargers by end of 2022 (1st
Deployment of Phase 1 EVs)**

CP43: 2 Church
24 L2, 4 DCFC

CP29: 75 Holly
28 L2, 1 DCFC

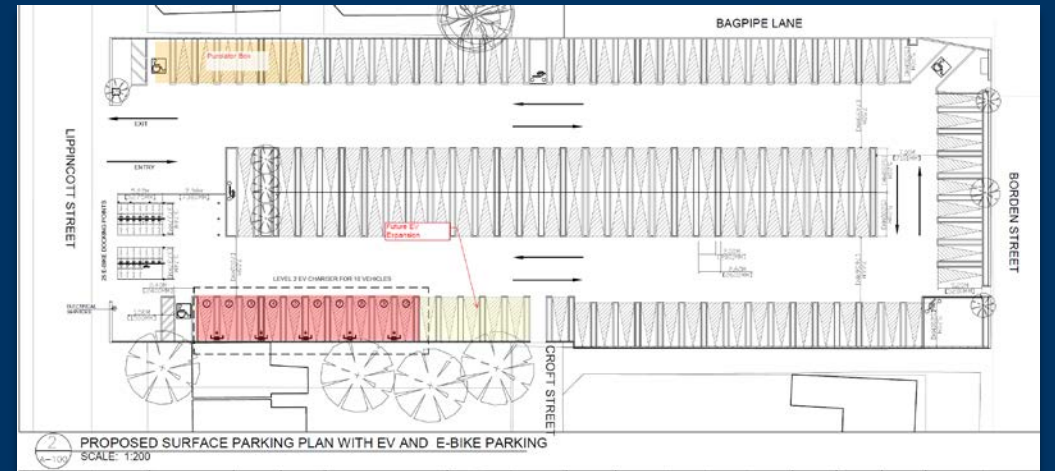
CP304: 9 Wellesley
8 L2

Contract Award – Consultant Services to Support Phase 2 of TPA's EV Charging Program – PA30.8

- Contract award recommended to two consultants: CIMA Canada Inc. and WSP Canada Inc.
- Scope includes:
 - Site assessments that will inform feasibility and cost
 - Engineering design services and preparation of construction tenders
 - Contract administration services
- Total budget of \$3,000,000 (\$1,500,000 each)
- Funded through TPA 2022 Capital Budget and 2023 – 2031
- Estimated spend of \$400,000 in 2022; balance of the contract value will be dispersed from 2023 to 2025
- TPA will include the costs associated with these contracts in its application for funding available in 2022 through Natural Resources Canada's (NrCAN) Zero Emission Vehicle Infrastructure Program (ZEVIP).

High Impact Initiative: Innovation at CP 51 (365 Lippincott St)

- In 2022, deployment of new EV Stations, E-Bike Station, Lighting Replacement, Paving, Line Painting, and Pilot with Purolator



Thank you

