

2023 On-Street Electric Vehicle (EV) Charging Station Program

TORONTO PARKING AUTHORITY

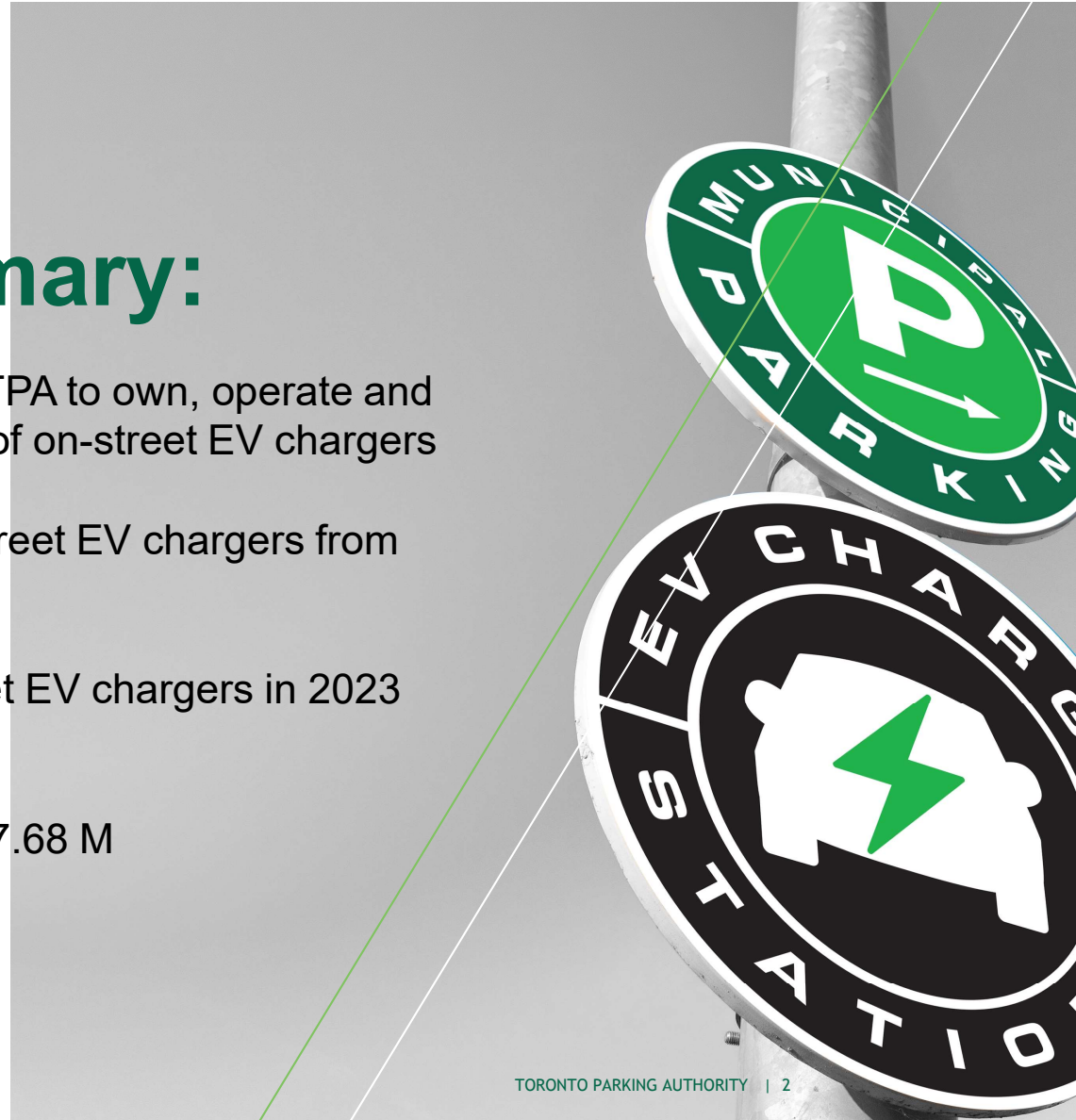
Board of Directors Meeting
March 3, 2023

Presented by:
Jeffrey Dea, VP Business Development



Executive Summary:

- June 15, 2022 Council direction: TPA to own, operate and support the continued expansion of on-street EV chargers
- TPA to purchase 47 existing on-street EV chargers from THESL at a cost of: \$792,000
- TPA to install a further 50 on-street EV chargers in 2023 at a cost of: \$ 6.89 M
- Approved 2023 Capital Budget: \$7.68 M



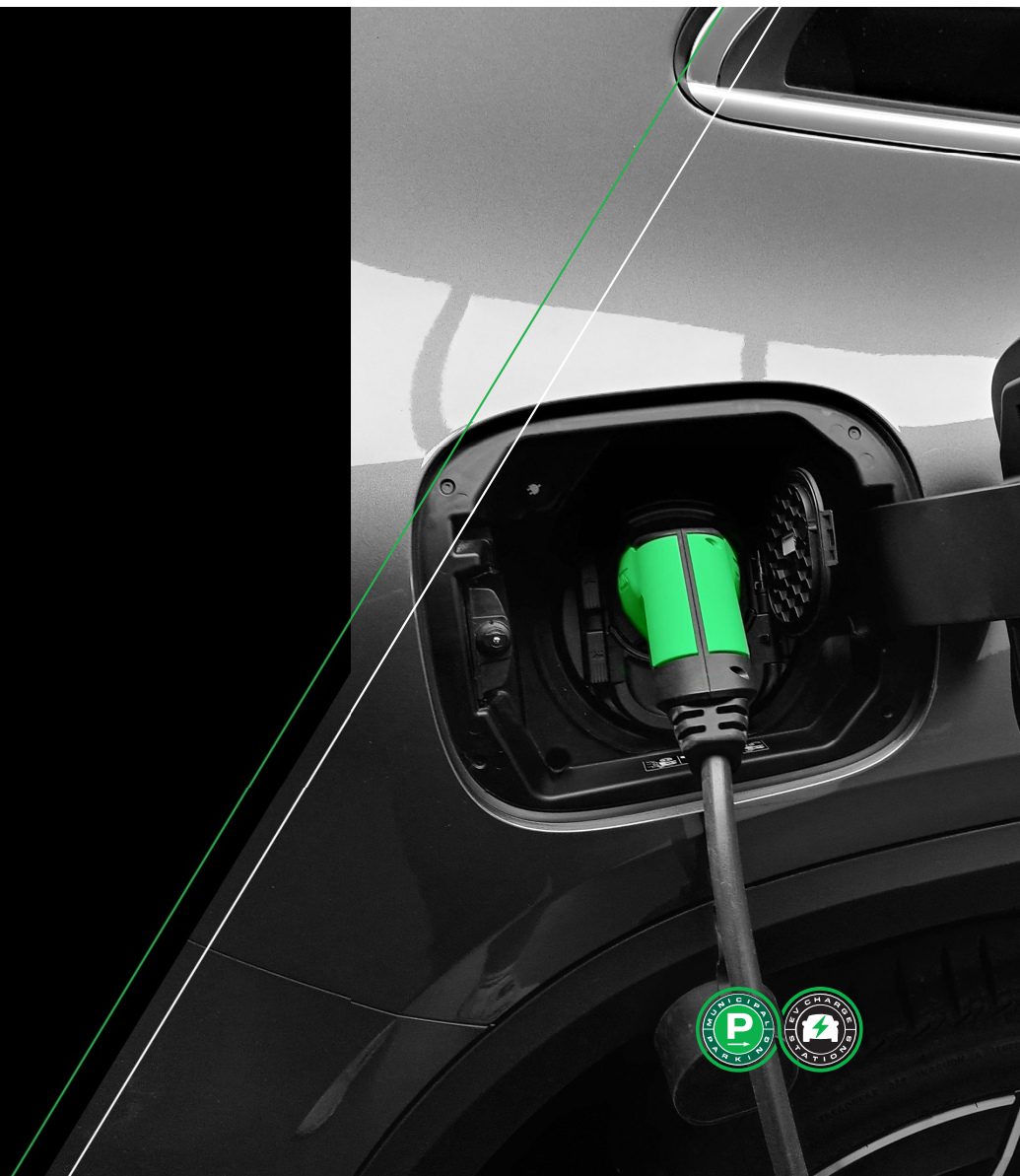
Agenda:

1. City-Wide Collaborations
2. Current EV Charging Program
3. 2023 On-Street Selection Criteria
4. 2023 EV Charger Installations – Next Steps
5. 2024 and Beyond EV Charger Installations + Funding



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Collaborations



CITY PARTNERS ARE WORKING TOGETHER TO ADVANCE PUBLIC EV CHARGING PROGRAM

EV Charging Delivery Working Group

- Toronto Parking Authority
- Toronto Hydro
- City of Toronto Transportation Services
- City of Toronto Environment and Climate
- City of Toronto Fleet Services
- Toronto Transit Commission

Councillors

- Targeted Wards



Current EV Charging Program

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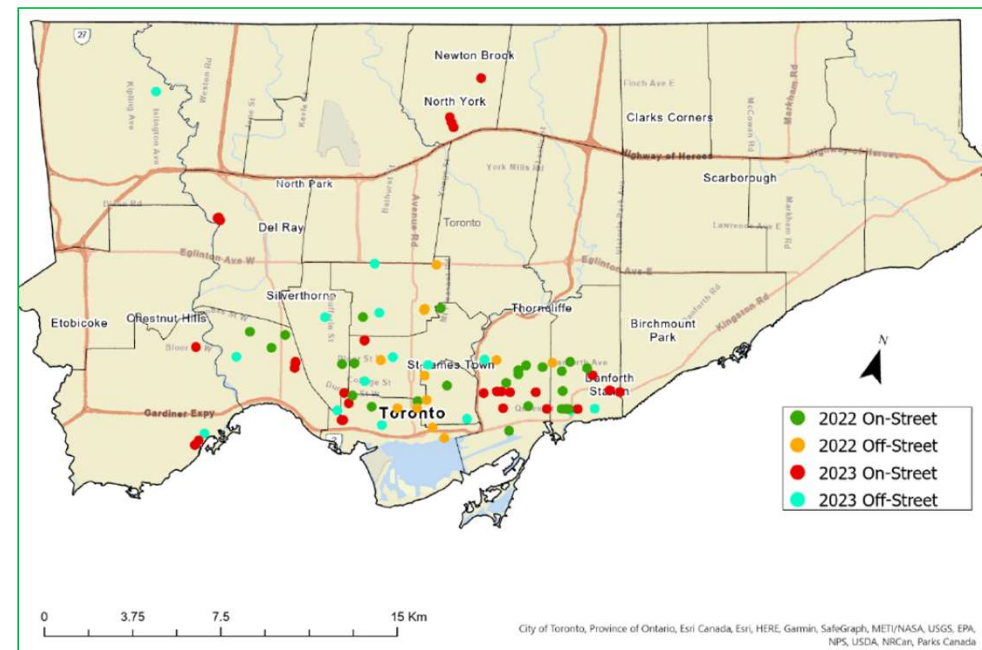
EV CHARGING
PARKING



DELIVERY OF EV CHARGING IS UNDERWAY

- The City of Toronto *Electric Vehicle Strategy* was approved by City Council on January 29th, 2020
- Through the *Pilot Program* and post-pilot, Toronto Hydro has installed 47 on-street chargers across the City
- Following Council direction from June 2022, TPA will be responsible for the operations and maintenance of the existing on-street chargers as well as the roll-out and operation of additional on-street EV charging infrastructure beginning in 2023 as part of its overall EV Charging Program
- TPA has developed a multi-year deployment plan for its EV Charging Program to meet the growing demand for EV charging and to help fast-track EV adoption

Existing City-Operated Public Charging Locations



By end of 2022: Total of 47 On-Street and 117 Off-Street Charging Ports = 164
By end of 2023: Total of 97 On-Street and 292 Off-Street Charging Ports = 389

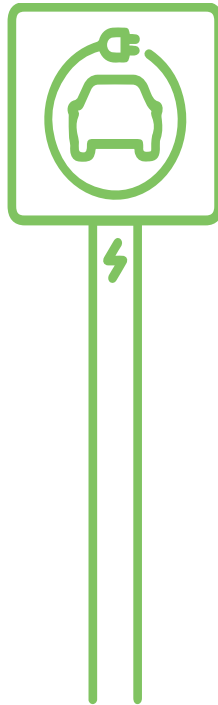


HOW TPA WILL ACCELERATE EV ADOPTION FOR CUSTOMERS

2022

Delivered 100+ EV chargers at 11 off-street car parks in 2022

- Included 32 new EV chargers in partnership with Toronto Hydro across 5 TPA off-street parking garages



2023

Assume the ownership and operation of 47 on-street EV charging stations delivered by Toronto Hydro and Transportation Services 2020-2022

Install an additional 50 on-street chargers

Install an additional 175 off-street EV chargers

2024

Scale to **650+** total EV chargers by the end of 2024



On-Street Selection Criteria

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ON-STREET EV CHARGING SITING CONSIDERATIONS

- 1 **Residential Permit Parking**
(e.g. < 90% and at least two fewer permits issued than parking spaces available)
- 2 **Hydro Requirements**
(e.g. wooden electrical poles placed between the back of the curb and the sidewalk; on a pole that can accommodate EV charging and peripheral equipment; min of 220V electrical power required)
- 3 **Prioritize Paid Parking Areas**
(City Council directed TPA (IE30.11) to accelerate the installation of on-street electric vehicle chargers by prioritizing existing pay and display locations – June 15, 2022)
- 4 **Siting/Placement Considerations**
(e.g. consistency with streetscape parameters, boulevard design varies by street typology, physical features including setback requirements, configuration of parking spaces, and parking restrictions)
- 5 **Coordination with Capital Programs**
(e.g. locations screened against other planned capital works)

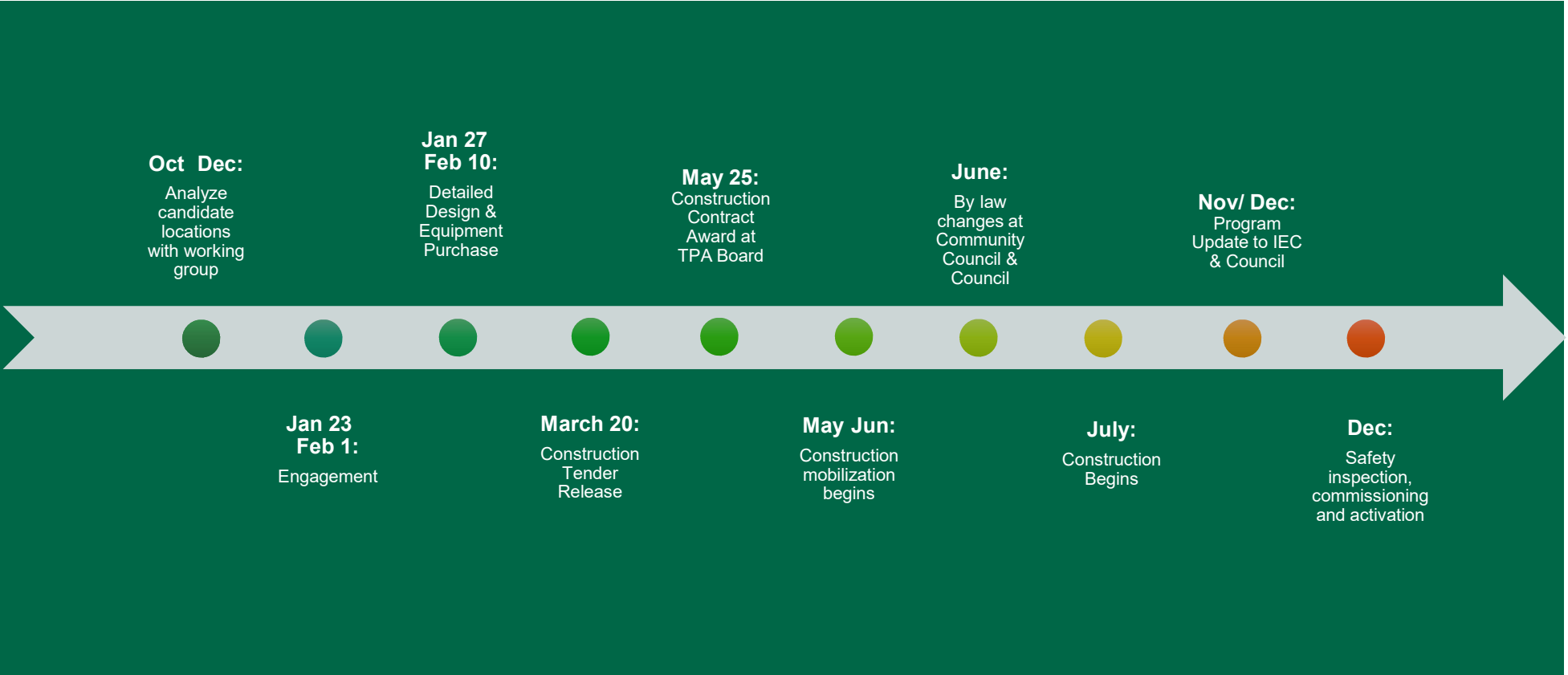


2023 EV Charger Installations

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NEW ON-STREET EV CHARGER INSTALLATIONS BEGIN JULY 2023



Councillor Engagement

Ward 3 - Councillor Morley: January 25, 2023 (locations confirmed)

Ward 4 - Councillor Perks – January 23, 2023 (locations confirmed)

Ward 5 - Councillor Nunziata: January 25, 2023 (majority locations confirmed)

Ward 10 - Councillor Malik: January 30, 2023 (locations confirmed)

Ward 11 Councillor Saxe – January 25, 2023 (locations confirmed)

Ward 14 - Councillor Fletcher – February 3, 2023 (majority locations confirmed)

Ward 18 - Councillor Cheng: January 25, 2023 (locations confirmed)

Ward 19 - Councillor Bradford: February 1, 2023 (locations confirmed)



2024 and Beyond EV Charger Installations + Funding



Planning for the 2024 On-Street EV Charging Program Is Already Underway

- Develop new design standards:
 - Steel and concrete pole mounts
 - Pedestal installations across various street typologies
 - Signage Plan
- Public consultations as part of City-Wide Public EV Charging Plan
 - Led by City of Toronto Environment & Climate Division
 - Both in-person and virtual meetings with stakeholders and the public begin in Q2/Q3 2023
- Consultations with local Councillors and community stakeholders will take place in Q3 2023
 - Confirm locations for a minimum 75 On-Street EV Chargers for installation in 2024
- New income sharing agreement with the City
 - To support capital funding requirements for continued expansion of On-Street EV program
- Ongoing capital coordination for future EV installations as part of road reconstruction projects



Questions?



THE FUTURE IS ELECTRIC

