City of Oshawa

Fleet Services Decarbonization Strategy

Durham Greener Buildings

Description

The City of Oshawa's Fleet Services Decarbonization Strategy, originally developed in 2021, aimed for a fleet replacement policy that set ambitious targets in fleet electrification and decarbonization.

- The strategy provides a clear path to reduce fleet emissions through benchmarking, fleet optimization, electrification, alternative fuels, right sizing, and emerging technologies.
- Currently, the City is preparing more electric vehicles while aligning fleet replacements with available technology, charging infrastructure, operational needs, and funding.
- The 2024 update reinforced the City's commitment to continuous improvement, including installing charging infrastructure as combustion vehicles reach the end of their service life.
- Electric vehicle purchases and charging expansion from 2024–2026 are putting the strategy into action and supporting more efficient, cost-effective fleet operations.

Long-term Vision and Sustainability Commitment

The Fleet Services Decarbonization Strategy advances Oshawa's commitment to reducing emissions, sustainability and accountability. It aligns with the Oshawa Strategic Plan's "Care" priority and Safe & Sustainable Environments outcome, the Corporate Greenhouse Gas Reduction Plan, and the Corporate Energy Management Plan.

- Reduce fleet emissions through electrification, alternative fuels and vehicle right-sizing while meeting the growing community's needs.
- Track progress through total corporate greenhouse gas emissions and the number of electric fleet vehicles.

This project also reflects the City's broader commitment to promoting electric vehicle promotion and adoption.

A separate EV charging pilot, launched in 2023, installed 18 Level 2 charging stations rated at 19.2 kW each at City-owned facilities. Installed in phases, the stations have expanded access to making electric vehicle charging accessible for the public and city staff.

Desired Outcomes

- As an integral component within the City of Oshawa's Greenhouse Gas Reduction Plan, the project supports the City's requirements of greenhouse gas reporting and monitoring, and implementing the use of alternative fuels.
- The project monitors greenhouse gas emissions for all fleet vehicles, reviews opportunities to reduce fuel consumption and greenhouse gas emissions by leveraging new technology and/or alternative fuels, and sustainably optimizes cost-avoidance strategies.
- Through proper forecasting, planning and monitoring, the approach is intended to ensure increasing operational needs are met infrastructure deployment and financially responsible project phasing.

Progress to Date

The Fleet Services headquarters is located at the City's Consolidated Operations Depot, hosting the largest inventory of electric vehicle charging stations installed to date.

- Forty level two charging stations rated at 19.2 kW each, that provide adequate charging for daily use that accommodates varying rotating shifts.
- Four satellite hubs provide additional fleet charging stations throughout the City.
- 2023 marked the first year electric vehicles were purchased which accounted for nine units, an additional twenty-one units were acquired in 2025 and the final nine in 2026.
- The City fleet now hosts thirty-nine electric vehicles; this total represents fourteen percent of the entire fleet inventory.

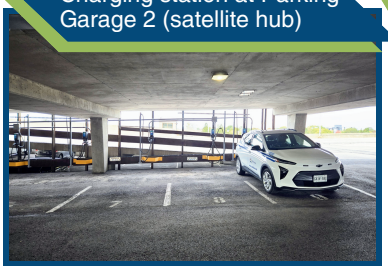
Charging station at Oshawa Executive Airport (satellite hub)



Charging station at Animal Services (satellite hub)



Charging station at Parking Garage 2 (satellite hub)



Silverado EV at Consolidated Operations Depot (Fleet Services headquarters) at the charging station



DURHAM REGION

Windfall ecology centre

Oshawa