



INFORMATION REPORT

TO:	Mayor and Members City Council
COMMITTEE DATE:	October 16, 2023
SUBJECT/REPORT NO:	Update to the City's Green Fleet Strategy and Action Plan (PW03147(g)) (City Wide)
WARD(S) AFFECTED:	City Wide
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SIGNATURE:	

COUNCIL DIRECTION

At the Public Works Committee meeting on May 31st, 2021, Fleet Services presented the Green Fleet Strategy Report & Action Plan (PW03147(e)) (City Wide).

Appendix "A" to Report PW03147(g), included 30 recommendations, of which 11 are now complete. Provided below is the status of some of the key deliverables identified in the original report:

- 3-year forecast of vehicles that can be replaced with Battery Electric Vehicles and replace as scheduled;
- Coordinate the supply and installation of electric charging infrastructure requirements;
- A pilot on the use of Biodiesel to identify highest blend possible;
- Eco-Driving and Anti-Idling training for all fleet operators; and,
- Anti-Idling awareness campaign.

INFORMATION

Fleet Services has received 47, Level 2 charging stations, and two Level 3 charging stations fully satisfying the commitments of this portion of the Green Fleet Strategy. Four, Level 2 charging stations will be installed and in service by September 2023. Building infrastructure for providing power to charging stations has presented

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OUR Mission: To provide high quality cost conscious public services that contribute to a healthy, safe and prosperous community, in a sustainable manner.

OUR Culture: Collective Ownership, Steadfast Integrity, Courageous Change, Sensational Service, Engaged Empowered Employees.

significant challenges with additional costs. Corporate Facilities and Energy Management is in the process of providing additional information with the associated costs in a separate report.

The global supply chain continues to have a serious impact on vehicle supplies and particularly on Battery Electric Vehicles. Our target to purchase 89 Battery Electric Vehicles by the end of 2024 will unlikely be realized. Previously considered alternative options, which included Plug in Hybrid Electric Vehicles and Hybrid Electric Vehicles, have not provided a solution as they are also impacted by supply chain issues.

The solicitation for Electric Sport Utility Vehicles and Vans was issued for competitive bid in July 2022. Only one bid was received for electric vans and staff have purchased ten to date.

The bid solicitation for Electric Sport Utility Vehicles and Vans was extended twice to encourage bids. Unfortunately, no additional bids were received. In total Fleet has purchased 19 fully electric vehicles since approval of the Green Fleet Strategy.

- 3 – ½ ton Pickup trucks (Policy 11 approved);
- 10 – Vans (Request for Tender);
- 4 – SUV's (Policy 11 approved); and,
- 2 – Electric Ice Resurfacers

Although Electric Vehicles are available in the open market a combination of factors including:

- Dealerships restricted ability/unwilling to bid on Fleet tenders;
- Enhanced rebate programs in Quebec and British Columbia where Electric Vehicles are in higher demand;
- Supply uncertainty from manufacturer; and,
- Cost uncertainty;

has resulted in Fleets inability to procure Battery Electric Vehicle's.

A separate report is being drafted to recommend alternative procurement approaches to procure Electric Vehicles.

With the assistance of Corporate Communications, Fleet Services has successfully delivered its Anti-idling campaign which includes:

- Actions displayed on TV monitors that remind drivers of techniques to help reduce idling with both work and personal vehicles;
- Vehicle Anti-Idling stickers; and,

- Staging area posters in common areas outside buildings that will remind staff to minimize idle time.

The trial phase using Biodiesel has been completed. Identified challenges with cold weather usage have been addressed and no further significant challenges have been identified.

Biodiesel is a renewable fuel made from plant oils, vegetable oil, waste cooking oil, animal fats such as beef tallow, fish oil and even algae oil. To date the city has used 1.8 million litres of 5% Biodiesel Blend and 650,000 litres of 20% Biodiesel Blend. Fleet Services will continue to maximize the supply and use of Biodiesel going forward.

The Eco Driver training course started in late summer 2021 and has been delivered virtually to over 741 City Staff. Continued high demand for the training from operating departments will see hundreds more trained in 2024. This course is now mandatory for all new city employees who drive a city vehicle.

Fleet Services also engaged CityLab, along with students from Mohawk College to assist in performing a global search on emerging technologies that would help reduce fleet vehicle emissions beyond our current Green Fleet Strategy term of 2024.

The recommendations presented in the research report offer feasible options for reducing the demand for diesel and internal combustion engine vehicles and promoting the adoption of electric and hydrogen fuel cell vehicles. Appendix “B” to Report PW03147(g) outlines a summary of the students’ recommendations.

Fleet is investigating several opportunities for funding sources through various grant programs including but not limited to:

- Natural Resources Canada Greening Freight Program Stream 1 - Assess and Retrofit;
- Natural Resources Canada Greening Freight Program Stream 2 - Repower and Replace; and,
- Federation of Canadian Municipalities funding for initiative that reduce GHG emissions by 20% in any vehicle fleet that delivers municipal services.

Appendix “B” to Report PW03147(g) included 30 recommendations and has been updated to outline the progress up to and including August of 2023.

APPENDICES AND SCHEDULES ATTACHED

Appendix “A” to Report PW03147(g) – Fleet Services Green Fleet Strategy Report

Appendix “B” to Report PW03147(g) – Green Fleet Strategy Action Plan

Appendix “C” to Report PW03147(g) – Greening Hamilton’s Fleet