Green Fleet Strategy

2025 Renewable Diesel Program Summary

BACKGROUND

To help meet The City's goals of reducing greenhouse gas emissions by 60 per cent by 2030 and reaching net zero by 2050, Fleet & Inventory is advancing alternative fuels and technologies through the Green Fleet Strategy. This document highlights The City's first full-scale Renewable Diesel Program, launched in 2025 following two successful pilots.

What is renewable diesel?

Renewable diesel is made by refining fats or oils and can fully replace petroleum diesel without changes to fuel systems. It offers major lifecycle GHG reductions, especially for heavy-duty vehicles that are hard to electrify.

PROGRAM OVERVIEW

WHAT

Renewable diesel was made available at five of The City's busiest fuel islands. About 2.3 million litres were used by vehicles and equipment during the program. A new product code was introduced to improve tracking moving forward.

WHEN

May to September 2025

WHERE

All diesel fuel pumps at East Calgary Landfill, Shepard Landfill, Spyhill Landfill, Manchester OWC and Spring Gardens OWC were switched to renewable diesel.

RESULTS

Lifecycle emissions
The 2025 program reduced lifecycle greenhouse gas emissions by more than 5,900 tonnes of CO_2e.

Progress toward emission reduction targets
It helped surpass the Green Fleet Strategy's 2026 emissions reduction target by 6,000 tonnes, an improvement of 20 per cent over the baseline.

Operational performance
No operational issues were reported during the transition from standard diesel to renewable diesel.

Maintenance and performance
Maintenance schedules and tasks remained unchanged.

Program transition
Renewable diesel has fully replaced the Biodiesel (B20) Program, offering greater flexibility across the fleet.

NEXT STEPS

Building on the success of the 2025 program, Fleet & Inventory is exploring opportunities to expand renewable diesel to additional sites. Work is also underway to assess renewable blends for year-round use, aiming to boost environmental benefits while balancing costs.