

Business Case: Fleet Electrification



In 2024, the City of Kitchener's fleet and equipment emitted approximately 3,913 tonnes of CO2 equivalents (tCO2e), which accounted for 36% of the City's corporate greenhouse gas emissions. To help meet the City's long-term goal of net-zero by 2050, as outlined in Pivot: Net Zero. Fleet has taken the approach to "electrify where and when possible." As of November 2025, there are 26 light-duty battery electric vehicles (BEVs) in operation.

Over a 15-month pilot period from June 2024 to August 2025 two battery electric cargo vans and two internal combustion engine (ICE) cargo vans used for the same daily tasks were analyzed. This report demonstrates the business case for fleet electrification.

**70% lower
annual fuel costs**

**73% lower annual
maintenance costs**

**annual savings of
approximately \$5,087**

**96% less annual
GHG emissions**

**cost premium payback
period of 5.26 years**

**improved
user comfort**

**efficiency and
convenience**