

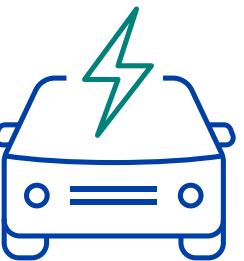
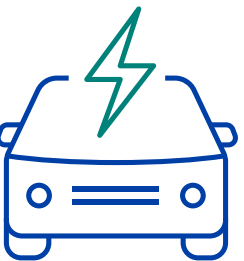
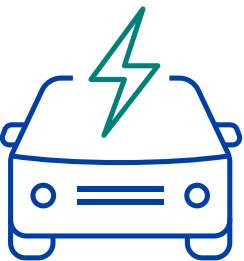
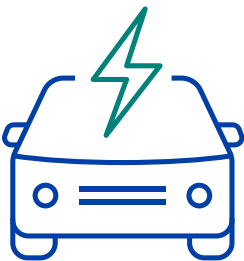


City of Saskatoon's Electric Vehicle Pilot Project

U P D A T E

KEY HIGHLIGHTS & SPECIFICATIONS:

2020 Chevy Bolt BEV | Max range **417 kms** | Battery size **66 kWh**



4 Electric Vehicles in operation since March 2021



Over

88,000

kilometers driven so far!

Charged using dedicated

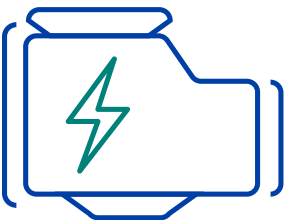
Level 2

Chargers



Electric Vehicle Use Summary: April 21, 2021- Sept 9, 2022

Vehicle	Total Mileage	Daily max distance	Daily average distance
Parking Enforcement	41,000 kms	335 kms	100 kms
Saskatoon Light & Power, 2 EV	40,500 kms	218 kms	77 kms
Facilities Management	7,200 kms	220 kms	68 kms



- Analysis to date:**
- > Stated manufacturer energy efficiency (ideal) – **6.30 km per kWh**
 - EVs were charged to **90%** of battery capacity due to battery recall specifications
 - > Average range of **234 kilometers**
 - Above 0°C range of **346 kilometers**
 - Below 0°C range of **265 kilometers**
 - > Electricity cost of EVs based on 2022 rates
 - Commercial: ~**\$2.2 to \$10 per 100km**
 - Residential: ~**\$4.4 per 100km**
 - > Simple payback on the initial investment is **4 years** (excluding tax, freight, and licensing and other fees)
 - > Pilot EVs emit up to **28% less emissions** than comparable gas-powered vehicles
 - Emissions fluctuate with carbon intensity of power grid
 - > **Smart EV Chargers** used to allow:
 - Charger access
 - Charging control
 - Data collection
 - > Using **Level 2 chargers**, the EVs take about **9.2 hours to charge** (0% to 90%)

