

# MUNICIPAL ELECTRIC VEHICLES

The Town of Portugal Cove-St. Philip's and the Town of Torbay are at different stages of electrifying their fleet vehicles. By working together to share experiences and resources, both Towns can make practical, economical, and environmentally responsible procurement decisions.

## Portugal Cove St. Philip's

**November 2020 - May 2021**

Funding application + feasibility study prepared for EV pilot project

Application review and revisions...

**August 2022**

Funding approved + agreement signed

**September 2022**

Began procurement of EVs and charging stations

COVID-19 supply chain delays...

**December 2023**

First EVs delivered

**Jan. 2024 - Dec. 2025**

Pilot project + public education ongoing

6 months of data indicates that the Town saved ~ \$11,000 in gas and spent ~ \$2,000 in electricity for the 6 EVs - **a net savings of about \$9,000!**

A full report will be completed at the end of the project.



### PCSP'S PILOT PROJECT

- 6 new EVs replaced 6 existing Town fleet vehicles that were due for replacement
- 80% funding from the Federation of Canadian Municipalities (FCM)
- Additional savings from the Federal and Provincial EV rebates + NL Hydro EV Charger rebate
- Overall, the Town **spent 65% less** than was originally budgeted to replace these 6 vehicles with gas options

For more detailed project information, see [pcsp.ca/evs](https://pcsp.ca/evs)

### COLLABORATION

- PCSP has been contributing to Torbay's feasibility study by sharing what they've learned so far using their EVs.
- Both FCM projects include a public education component and the schedules for those activities happened to align - undertaking this together just made sense.

## Torbay

**April - July 2024**

Funding application prepared for EV feasibility study

Application review and revisions...

**February 2025**

Funding approved + agreement signed

**February - July 2025**

Feasibility study + public education ongoing

### TORBAY'S FEASIBILITY STUDY

The study is exploring how the Town may introduce EVs in a way that aligns with existing vehicle replacement schedules and budgeting, and the Town's Carbon Emission Reduction Targets.

# ELECTRIC VEHICLE (EV) FACTS

A lot of research has been done as part of the feasibility studies for both the Town of Portugal Cove-St. Philip's and the Town of Torbay fleet electrification projects. Here are some of the key points we've learned:



## New EV Battery Warranty

**8-10 years**  
**160,000 km**

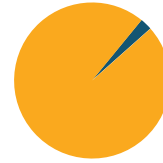


## Town Light-Medium Duty Vehicle Replacement Policy

**5-9 years**  
**~160,000 km**

→ very unlikely that the Town would be on the hook for the cost of a battery replacement

## Out-of-Warranty EV Battery Replacements are Rare



**2.5%**  
of all EV models  
made since 2011



**Less than 1%**  
of all EV models  
made since 2016

Source: Recurrent Auto 2023-2024 study of 20,000 EVs



## Cold weather impacts EV battery range (it impacts the range of gas/diesel vehicles too)

- Town vehicles don't usually drive over 100 km/day
- EVs on the market today have 400 km ranges or more
- Average efficiency loss in cold is 20-25%\*

\*2022 testing by ConsumerReports

→ **no problem**

## EV owners spend an average of **40-50% less on maintenance**



No engine oil



No exhaust system

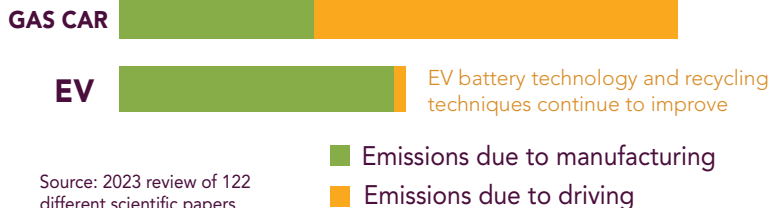


No spark plugs

plus the **breaks** typically last longer on EVs because of the regenerative braking system

Sources: evbuyersguide.caa.ca ; takecharge.nl.ca/evs

## EVs have a **lower total carbon footprint** over their lifecycle



**Electric engine = ONE** moving part

**Gas/Diesel engine = HUNDREDS** of moving parts

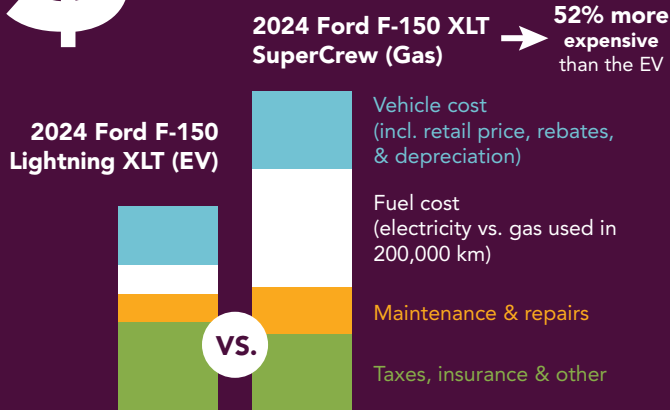
**Hybrid/Plug-in-Hybrid = BOTH** types of engines

↓  
less maintenance savings than 100% Electric

→ Towns only buy vehicles from local dealerships - if the dealership sells EVs, they must be able to service them



## EVs have a **lower total cost of ownership**



## EVs are **83x less likely** to catch fire than gas vehicles



**0.1%**  
chance of a **gas**  
vehicle catching fire

If an EV does catch fire, it is harder to put out because of the battery chemistry. Town Fire Departments are aware of EV fire suppression guidelines.

Source: evfiresafe.com



**0.0012%**  
chance of a **EV**  
catching fire

For more information & resources, visit [pcsp.ca/evs](https://pcsp.ca/evs) or [torbay.ca/evs](https://torbay.ca/evs)