



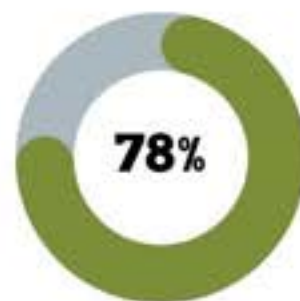
WHAT IS A CLIMATE MITIGATION PLAN?

(And, Why is it a Municipal Issue?)

PCSP completed a corporate GHG emissions inventory and identified that the transportation sector accounted for 79.1% of the Town's corporate GHG emissions.



Corporate GHG Emissions



Community GHG Emissions

This includes fuel use from Town owned and leased vehicles, contracted vehicles, staff commuting, and work travel by personal vehicle, rental, or air.

This equated to 514.49 tonnes of carbon dioxide equivalent.

514.49 TONNES =

**158 PASSENGER VEHICLES
344 HOMES' ELECTRICITY FOR A YEAR
219,176 LITRES OF GASOLINE**



WHAT IS A CLIMATE MITIGATION PLAN?

(And, what does Electric Vehicles Have To Do With It?)

The goal: reaching 100% electrification in three phases

Phase 1:

Pilot Project (6 light-duty vehicles requiring imminent replacements)

Phase 2:

Light-Duty (all remaining light duty vehicles replaced)

Phase 3:

Heavy Duty (all heavy-duty vehicles replaced)

Using the EV electricity estimation methodology, the greenhouse gas reduction per vehicle is 97% in comparison to an internal combustion engine vehicle baseline.

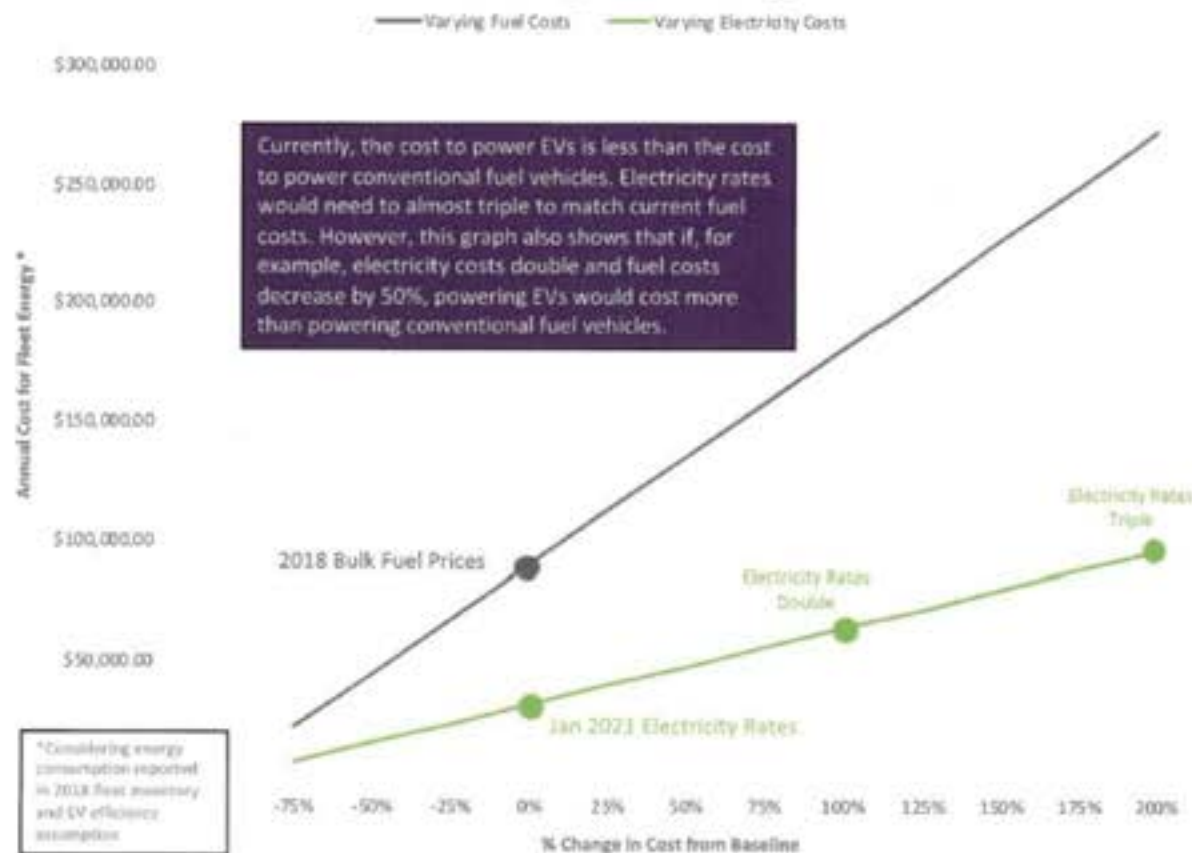


WHAT IS A CLIMATE MITIGATION PLAN?

(And, what does Electric Vehicles Have To Do With It?)

The goal: reaching 100% electrification in three phases

Annual Cost of Power for Fossil Fuel Fleet vs. 100% Electric Fleet
for PCSP, Considering Cost of Energy Variations





WHAT IS A CLIMATE MITIGATION PLAN?

(And, what does Electric Vehicles Have To Do With It?)

The goal: reaching 100% electrification in three phases

Category of Transportation Spending	2018/2020 Reported Spending	100% Electric Fleet Estimate (Jan 2021 Rates)	Net Spending Difference	% Cost Reduction
Town owned vehicles/equipment fuel (gasoline + diesel vs. electricity)	\$90,523.41	\$32,112.72	-\$58,410.68	-65%
Staff Vehicle Business Travell (fuel reimbursements vs. electricity cost)	\$6,173.45	\$585.34	-\$5,588.12	-91%
Town owned vehicles/equipment Maintenance (parts, supplies, and labour)	\$148,626.14	\$78,771.85	-\$69,854.29	-47%
Total	\$245,323.00	\$111,469.91	-\$133,853.09	-55%



WHAT IS A CLIMATE MITIGATION PLAN?

(And, what does Electric Vehicles Have To Do With It?)

2018/2020 Initial Rates

Category of Transportation Spending	2018/2020 Reported Spending	100% Electric Fleet Estimate (Jan 2021 Rates)	Net Spending Difference	% Cost Reduction
Town owned vehicles/equipment fuel (gasoline + diesel vs. electricity)	\$90,523.41	\$32,112.72	-\$58,410.68	-65%

2021/2024 Adjusted Rates

Category of Transportation Spending	2021/2024 Reported Spending	100% Electric Fleet Estimate (2024 Rates)	Net Spending Difference	% Cost Reduction
Town owned vehicles/equipment fuel (gasoline + diesel vs. electricity)	\$128,270.95	\$34,929.00	-\$93,341.95	-73%

Individual Percent Increase from 2021-2024

Year	Diesel Rates	Gas Rates	Electricity Rates
2021	0.7885	0.8877	12.062
2024	1.2143	1.0548	13.12
% Increase	54.00%	18.82%	8.77%



ELECTRIC VEHICLE NEEDS

01

Fleet Duties

EVs must be able to perform its fleet duties at least as well as it's fossil fuel powered counterpart.

02

Driving Range

EVs must be able to have increased driving range that matches it's fossil fuel powered counterpart.

03

Technology

EVs must be equipped with technology that equals performance to its fossil fuel powered counterpart.





EV CHARGING

(They're more accessible than you know!)

Siemens Versicharge AC Series at PCSP Town Hall



Take Charge NL Informational Map of Charging Locations Across the Island

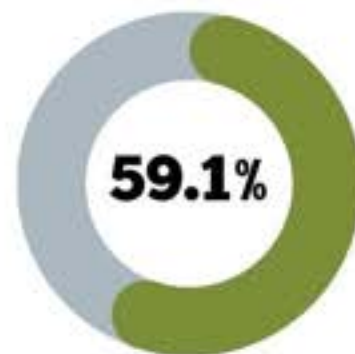




SUSTAINABLE TRANSPORTATION PROJECTIONS



Corporate GHG Emissions
Before Interjection



Corporate GHG Emissions
After Interjection (2030)

This is a reduction from 514.49 Tonnes to 411.59 Tonnes

Emissions Equivalent Before Interjection

514.49 TONNES =

- 158 PASSENGER VEHICLES
- 344 HOMES' ELECTRICITY FOR A YEAR
- 219,176 LITRES OF GASOLINE

Emissions Equivalent After Interjection

411.59 TONNES =

- 126 PASSENGER VEHICLES
- 275 HOMES' ELECTRICITY FOR A YEAR
- 175,340 LITRES OF GASOLINE

02



Leave today equipped with enhanced knowledge to provide valuable insights to council that will steward relationships with climate partners

- **Communicating Insights on Electric Vehicles**



2018

**BASELINE
BREAKDOWN
ESTABLISHED**



2019

**CORPORATE
GREEN
STRATEGIES
ESTABLISHED**



STRATEGIC PARTNERSHIPS: MILESTONES ESTABLISHED

In 2019, the Town of Portugal Cove-St. Philip's joined the Partners for Climate Protection Program (PCP).

The PCP was established in collaboration with The Federation of Canadian Municipalities (FCM), and ICLEI-Local Governments for Sustainability, to facilitate and aid communities across Canada in their climate adaptation and migration efforts.





STRATEGIC PARTNERSHIPS: MILESTONES PROGRESS

- Milestone 1:**
Create a Greenhouse Gas emissions inventory and forecast
- Milestone 2:**
Set an emissions reduction target.
- Milestone 3:**
Develop a local action plan.
- Milestone 4:**
Implement a local action plan.
- Milestone 5:**
Monitor progress and report results.





MILESTONES ESTABLISHED

Milestone 2: Set an emissions reduction target.

tCO₂e 2018	tCO₂e 2030 PCP	tCO₂e % Change 2018-2030
514.4959003	411.5967202	-20.00% DECREASE

A strong foundation leads to clear council leadership



ELECTRIC VEHICLES: BUILDING STRATEGIC PARTNERSHIPS



- **Completed feasibility study**
- **Study was essential for pilot project funding application**
- **Workplan development in accordance with 5 PCP milestones**



2022

**FCM AND GREEN
MUNICIPAL FUND
COMPLETE**



ELECTRIC VEHICLES: BUILDING STRATEGIC PARTNERSHIPS



- **Provided essential funding to secure vehicles for pilot project.**
- **Detailed support throughout agreement.**



- **Provided strategic support**
- **Helps municipalities adopt climate solutions faster**
- **Funding can cover between 50 and 80 percent of project costs**



ELECTRIC VEHICLES: BUILDING STRATEGIC PARTNERSHIPS



03



**Be inspired to create climate
change actions**

- **Supporting Climate Educations**
- **Mobilizing Communities**



BEYOND THE NUMBERS: SUPPORTING CLIMATE EDUCATION

The focus of these initiatives is on the education and outreach, reducing consumption based emissions as well as the expansion and preservation of natural carbon sinks.



**Education and
Outreach**



**Consumption Based
Emissions**



**Supporting
Natural Sinks**



BEYOND THE NUMBERS: SUPPORTING CLIMATE EDUCATION





BEYOND THE NUMBERS: SUPPORTING CLIMATE EDUCATION



**Consumption Based
Emissions**



Town Depot Renovation



Wastewater Treatment Upgrades



Idling Reduction Program



BEYOND THE NUMBERS: SUPPORTING CLIMATE EDUCATION



**Supporting
Natural Sinks**



Wetland Protection



Community Garden



BEYOND THE NUMBERS: WHAT'S NEXT



Electric Vehicle Delivery



Data Collection and Reporting





Portugal Gove
St. Philip's

Thank You



pcsp.ca



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