



# City of Salmon Arm Corporate Milestone 1

Prepared for FCM's Partners for Climate Protection Program

February 2021

The 'first step' for local government and First Nation leaders  
addressing energy sustainability and climate change

# Appendix

## Introduction

This document has been created for the City of Salmon Arm’s Corporate Milestone 1 submission for FCM-ICLEI’s Partners for Climate Protection program.

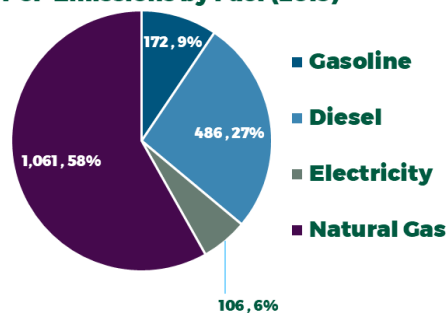
This document provides a Business As Usual (BAU) forecast of corporate emissions 10 years in to the future.

## Inventory

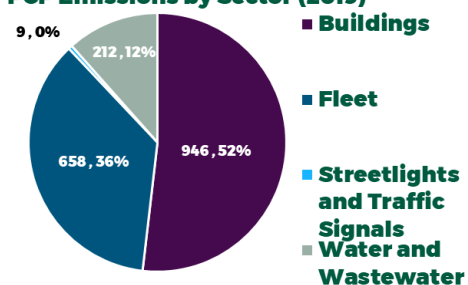
The PCP inventory for the City of Salmon Arm is being submitted for the 2019 year.

Biogenic emissions are excluded from CARIP reporting due to carbon tax allocations. Under PCP classification, these emissions are included. According to the 2019 Corporate Inventory, total emissions from non-biogenic sources is 1,800 tCO<sub>2</sub>e. Biogenic sources account for 24 tCO<sub>2</sub>e, resulting in total emissions from service delivery of **1,824 tCO<sub>2</sub>e**. See below for tabular and graphical representations of the inventory by fuel, and by sector.

**PCP Emissions by Fuel (2019)**



**PCP Emissions by Sector (2019)**



Energy (GJ)					
	Gasoline	Diesel	Electricity	Natural Gas	Total
Buildings	-	-	12,014	18,245	30,259
Corporate Solid Waste	-	-	-	-	-
Fleet	2,642	6,931	-	-	9,573
Streetlights and Traffic Signals	-	-	2,976	-	2,976
Water and Wastewater	-	-	20,499	3,025	23,523
<b>Total</b>	<b>2,642</b>	<b>6,931</b>	<b>35,489</b>	<b>21,270</b>	<b>66,332</b>

Emissions (tCO <sub>2</sub> e)					
	Gasoline	Diesel	Electricity	Natural Gas	Total
Buildings	-	-	36	910	946
Corporate Solid Waste	-	-	-	-	-
Fleet	172	486	-	-	658
Streetlights and Traffic Signals	-	-	9	-	9
Water and Wastewater	-	-	61	151	212
<b>Total</b>	<b>172</b>	<b>486</b>	<b>106</b>	<b>1,061</b>	<b>1,824</b>

## Data Sources & Assumptions

Utility-based energy consumption data is derived from the City's utility bills, while fuel consumption for other sources (fleet, non-utility fuels) is entered directly from internal ledgers. The inventory follows the methodology for calculating emissions outlined in the Province of BC's *The 2018 B.C. Methodological Guidance for Quantifying Greenhouse Gas Emissions*, and contains all assumptions used to calculate emissions (including emission factors, boundary conditions, global warming potentials, etc.). No emissions are reported for Corporate Solid Waste, as the City does not own its own landfill, and did not collect data on corporate waste tonnage.

## Business As Usual Forecast

The 10 year BAU forecast is shown in the following chart.

The 2019 figure is an actual inventory figure obtained from the inventory.

The 2029 figure has been created by assuming that the corporate GHG footprint will increase from the 2019 figure proportionally with population changes for the community. It is assumed that the community's population will increase by 0.78% per year on average, as that is what occurred over the last two census years (2011 and 2016), based on data from Stats Canada.

