



## 2022 CLIMATE CHANGE ACCOUNTABILITY REPORT



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## Section 1

### Declaration statement

This PSO Climate Change Accountability Report for the period January 1, 2022, to December 31, 2022, summarizes Coast Mountain Colleges greenhouse gas (GHG) emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2022 to minimize our GHG emissions, and our plans to continue reducing emissions in 2023 and beyond.

### Overview

Coast Mountain College has recently completed a significant renovation to our 4632 m<sup>3</sup> Spruce (Waap Sam'n) building which is a mixture of learning spaces, a library, Faculty offices, and student support services. Building efficiency improvements during this renovation include full exterior envelope spray foam insulation, high efficiency HVAC and electrical systems, and a newly designed DDC system with updated controls and graphic interface to maintain the best efficiency available while maximizing user comfort and satisfaction across the three levels.

For this reporting year, Coast Mountain College's total greenhouse gas emissions were 932 tCO<sub>2</sub>e, which is a 30.5% reduction from our 2017 emissions of 1341 tCO<sub>2</sub>e. These emissions reductions are present even though CMTN College's current footprint has continued to expand over the last 5 years, which demonstrates significant improvements. Even though there were a few years with less building activity due to the COVID pandemic, this current reporting year has had the campus fully operational with the larger footprint present, and the current reduction of greenhouse gas emissions documented truly showcase the results from Coast Mountain College's continuing effort on taking necessary steps to complete meaningful upgrades, ultimately reducing GHG emissions.

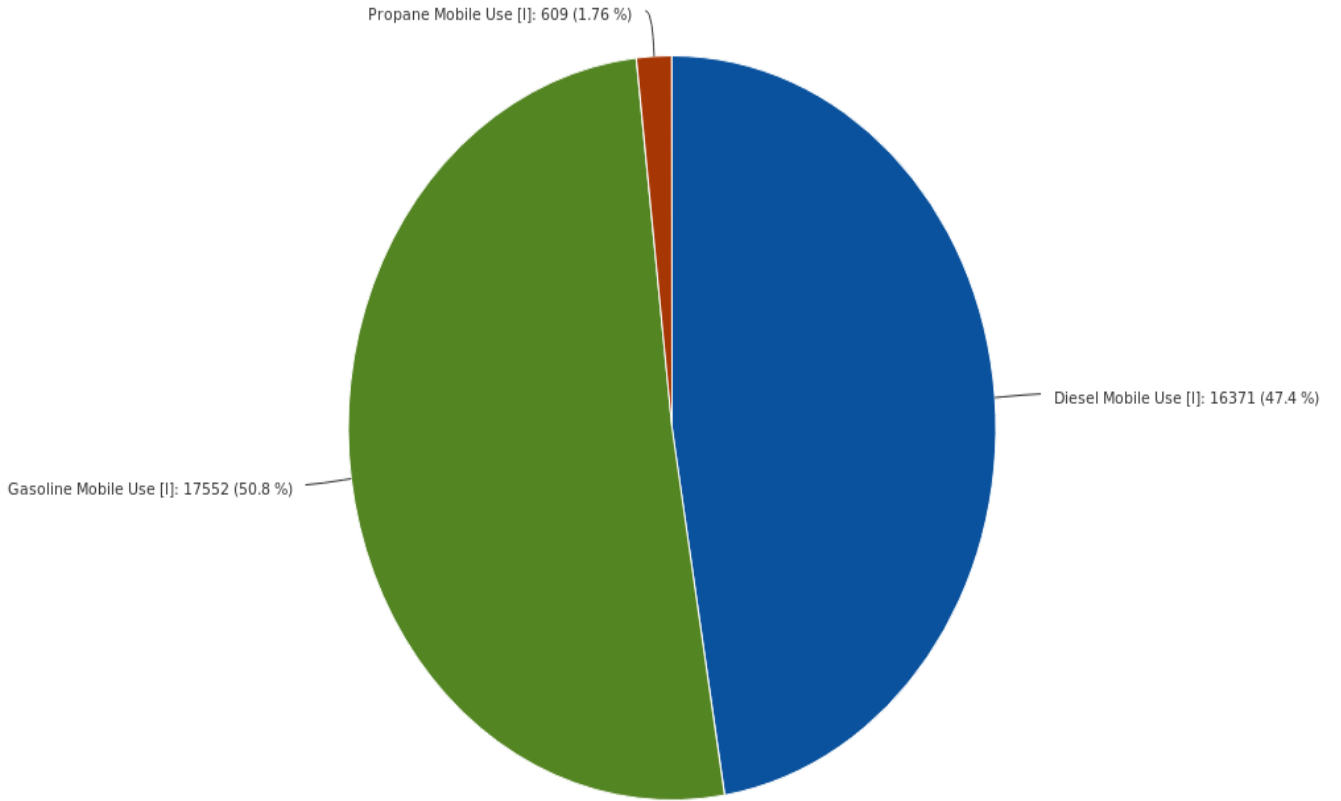
Coast Mountain College will continually plan upgrades that will contribute to the reduction of our carbon footprint and will be fully committed to responsible operations reducing our carbon emissions at every opportunity that is presented.

## Section 2

### 2022 GHG Emissions and Offsets Summary Table

<b>Coast Mountain College 2022 GHG Emissions and Offsets Summary</b>	
<b>GHG emissions for the period January 1 - December 31, 2022</b>	
Total BioCO <sub>2</sub>	2.94
Total Emissions (tCO <sub>2</sub> e)	932
Total Offsets (tCO <sub>2</sub> e)	932
<b>Adjustments to Offset Required GHG Emissions Reported in Prior Years</b>	
Total Offsets Adjustment (tCO <sub>2</sub> e)	0
<b>Grand Total Offsets for the 2022 Reporting Year</b>	
Grand Total Offsets to be Retired for 2022 Reporting Year (tCO <sub>2</sub> e)	932
Offset Investment (\$)	\$23,300.00

Coast Mountain College, 2022



- Diesel Mobile Use [I]
- Gasoline Mobile Use [I]
- Electricity Mobile Use [M]
- Propane Mobile Use [I]
- Natural Gas Mobile Use [I]
- Marine [I]
- Aviation [I]

More recent data will be available for this analytic in a few minutes. ●

### **Section 3**

#### **2022 Actions taken to reduce greenhouse gases.**

- Renovation completed on the 4632 m<sup>3</sup> Spruce building. Efficiency upgrades include exterior spray foamed walls, advanced HVAC and electrical systems, and upgraded DDC system/interface to maximize automatic building efficiencies.
- Waap Sam'n building's domestic and radiant hot/chilled lines are all now fully insulated to maximize temperature retention.
- Motion sensors for interior lighting installed across the entirety of the Prince Rupert campus.
- Prince Rupert parking lot lighting upgraded to LED.
- HVAC upgrades in Smithers building
- Multiple fleet vehicles were renewed with new and efficient replacements.

### **Section 4**

#### **2023 plans to reduce greenhouse gas emissions.**

- Demolishing of (3) 50 year old, 20 bed dorm buildings that offered little to no efficiency. These were replaced by our new 108 bed student housing building and are now redundant.
- Exterior renovation to our 4632 m<sup>3</sup> Spruce building. This includes new triple paned windows, entrance doors, and matching triple paned sidelights.
- Terrace campus EV charging stations to be installed.
- Continued replacement of older fleet vehicles with more fuel efficient and/or electric vehicles
- Continued replacement of aging infrastructure with new, high efficiency equipment
- Campus-wide underground utilities renewal. This includes new insulated radiant piping to transport hot water across the campus while maintaining its temperature and efficiency.
- Paved compound. This will remove the excessive amount of airborne dust which accumulates in our nearby exterior HVAC systems, plugging pre-filters and lowering building efficiency. This will also remove the excess diesel fuel used from heavy equipment use to repeatedly grade/smooth the rough, gravel surface.
- Continued monitoring of fuel, gas, and electricity use.
- Geothermal heating/cooling commissioned on our upper floor administration zone in our Smithers campus.
- Multiple furnace Replacements in Houston Building with high efficiency units.

## Section 5

### Retirement of Offsets

In accordance with the requirements of the *Climate Change Accountability Act* and Carbon Neutral Government Regulation, Coast Mountain College (**the Organization**) is responsible for arranging for the retirement of the offsets obligation reported above for the 2022 calendar year, together with any adjustments reported for past calendar years (if applicable). The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy (**the Ministry**) ensuring that these offsets are retired on the Organization's behalf, the Organization will pay within 30 days, the associated invoice to be issued by the Ministry in an amount equal to \$25 per tonne of offsets retired on its behalf plus GST.

### Executive Sign-off

May 31, 2023

A handwritten signature in black ink, appearing to read 'Michael Doyle', consisting of several loops and a trailing line.

**Michael Doyle**

**Vice President, Corporate Services**