



2023 CLIMATE CHANGE ACCOUNTABILITY REPORT



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Section 1

Declaration statement

This PSO Climate Change Accountability Report for the period January 1, 2023, to December 31, 2023, summarizes Coast Mountain Colleges greenhouse gas (GHG) emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2023 to minimize our GHG emissions, and our plans to continue reducing emissions in 2024 and beyond.

Overview

Coast Mountain College has recently completed several electrical projects aimed at improving energy efficiency. These projects involved converting outdated, inefficient systems to LED lighting and adding motion detection capabilities. Additionally, we have renewed multiple leaky roofing systems, including those on our 7191 SM Cedar (Trades) building and our 1115 SM Kitimat campus building. Significant HVAC upgrades have also been completed at our Smithers campus in preparation for the 2024 design, build, and commissioning of a geothermal heating and cooling system. This system will provide 240 MBH of non-mechanical cooling, contributing to a significant reduction in emissions.

For this reporting year, Coast Mountain College's total greenhouse gas emissions were 986 tCO₂e, an increase from 2022. This rise is attributed to a major renovation project at Waap Sa'mn, which required high-powered natural gas heaters to run continuously through the winter. These heaters were essential for maintaining interior building temperatures necessary for proper concrete curing, material bonding, and the safety of fragile electronic equipment. Without the emissions from this project, CMTN would have maintained a reduction in overall utility use and emissions. Notably, since 2018, when emissions were 1341 tCO₂e, we have achieved a 36.5% reduction, demonstrating significant improvements despite the college's expanding footprint over the last five years. These reductions highlight Coast Mountain College's ongoing efforts to implement meaningful upgrades and reduce greenhouse gas emissions.

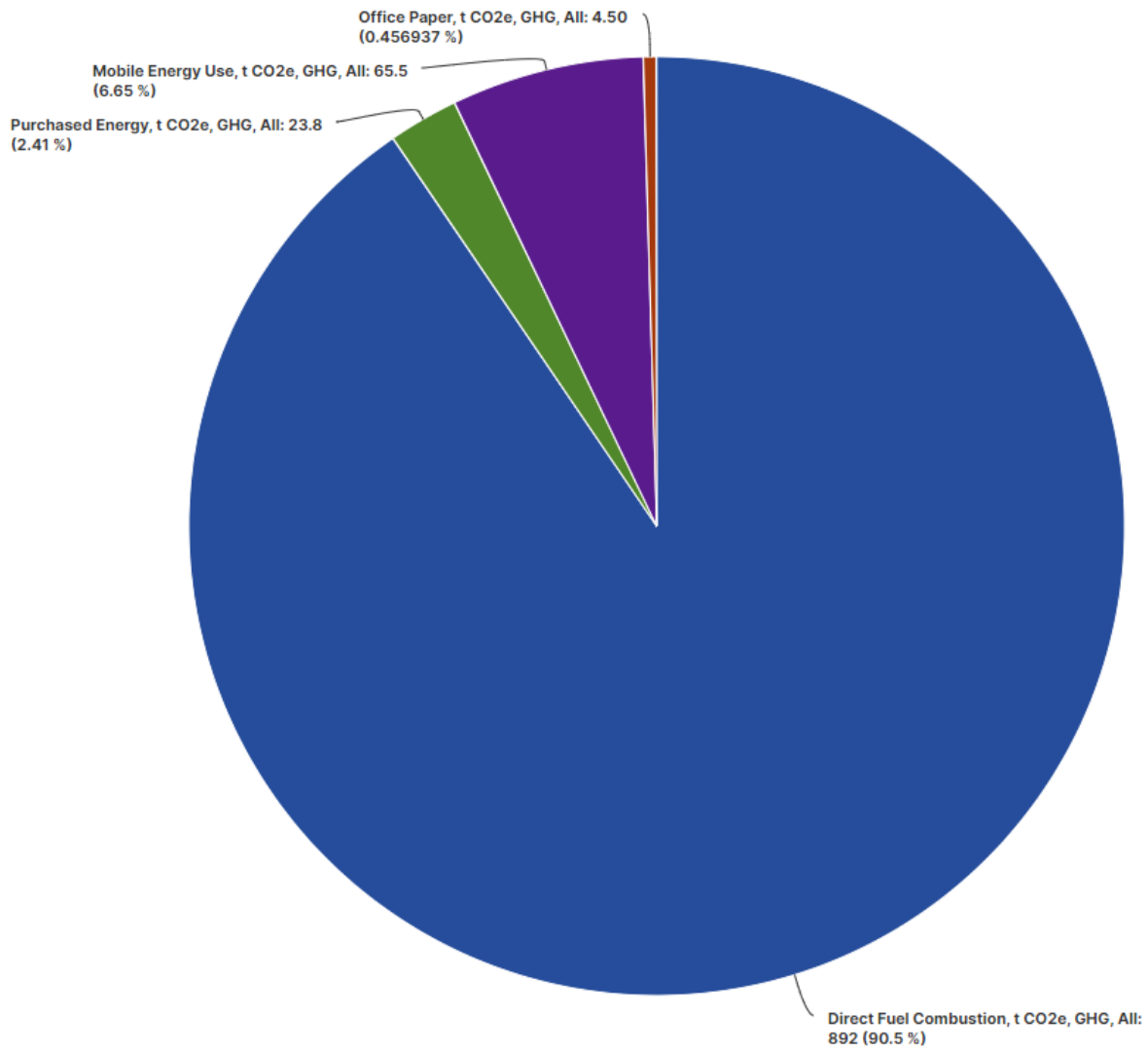
Coast Mountain College remains committed to planning and executing upgrades that will further reduce our carbon footprint. We are dedicated to responsible operations and will continue to seize every opportunity to lower our carbon emissions.

Section 2

2023 GHG Emissions and Offsets Summary Table

Coast Mountain College 2023 GHG Emissions and Offsets Summary	
GHG emissions for the period January 1 - December 31, 2023	
Total BioCO ₂	0
Total Emissions (tCO ₂ e)	985
Total Offsets (tCO ₂ e)	985
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	0
Grand Total Offsets for the 2023 Reporting Year	
Grand Total Offsets to be Retired for 2022 Reporting Year (tCO ₂ e)	985
Offset Investment (\$)	\$25,856.25

Offset Required, 2023



Section 3: 2023 Actions to Reduce Greenhouse Gases

- Kitimat campus roof renewal
- Terrace's Cedar campus (Trades building) roof renewal
- Installation of motion sensors for interior lighting and LED upgrades across various campuses
- Upgraded Houston parking lot lighting to LED
- HVAC upgrades in Smithers building in preparation for geothermal commissioning

Section 4: 2024 Plans to Reduce Greenhouse Gas Emissions

- Design and commissioning of geothermal heating/cooling at Smithers campus
- Exterior envelope upgrade of the 4632 m³ Spruce building, including new triple-paned windows, entrance doors, and matching triple-paned sidelights
- Roof renewal for Terrace's Spruce building
- Installation of EV charging stations at Terrace campus
- Continued replacement of older fleet vehicles with more fuel-efficient and/or electric vehicles
- Ongoing replacement of aging infrastructure with new, high-efficiency equipment
- Campus-wide underground utilities renewal (\$9.3 million), including new insulated radiant piping to transport hot water efficiently across the campus
- Paving the compound to reduce airborne dust, which clogs exterior HVAC systems pre-filters and decreases efficiency, and to eliminate excess fuel use from equipment needed to repeatedly grade the rough, gravel surface for safety
- Installation of stadium-style LED compound lighting to replace all low-efficiency perimeter lights with a single, high-efficiency light source
- Replacement of multiple furnaces in the 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 2023 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

Michael Doyle, V.P Corporate Services