



**The path
forward.**

Coast Mountain College 2021 Carbon Neutral Action Report



**Wide open
learning.**

Declaration Statement

This Carbon Neutral Action Report for the period January 1, 2021 to December 31, 2021 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2021 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2021 and beyond.

By June 30, 2022 Coast Mountain College's final 2021 *Carbon Neutral Action Report* will be posted to our website at www.coastmountaincollege.ca

Executive Summary

Coast Mountain College is pleased to submit its 2021 Carbon Neutral Action Plan. This year's report contains our 2021 emissions profile, offsets purchased, the actions we have taken in 2021 to reduce our GHG emissions and our plans to continue reducing emissions. By June 30th Coast Mountain College's final CNAR will be posted to our website at www.coastmountaincollege.ca.

Coast Mountain College has completed a number of mechanical and electrical upgrades listed in this report, but most significantly we are completing a substantial upgrade to our Lighting systems in Smithers and Prince Rupert Campuses. In addition we have recommissioned the Geothermal system at Smithers and being made functional to gain energy efficiency in supplying both heating and cooling to the building.

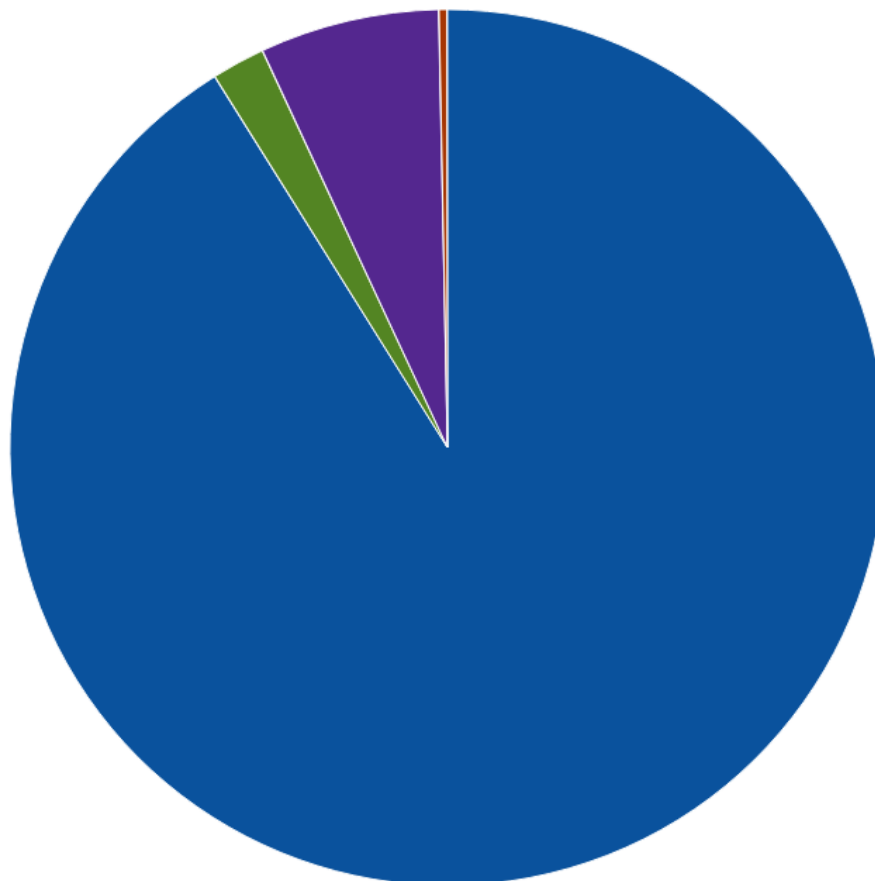
The College is happy to inform that we have completed two major projects. The new Housing Project, completed in Fall of 2021 is built to BC StepCode 4 guidelines to replace aging buildings constructed in 1970. This modern space replaces the old, inefficient buildings, which will be removed from the campus in accordance with our strategic plan. This is a significant project that reduces emissions and provides students with a modern facility that mirrors our natural surroundings and unique history in its design.

Additionally, the College completed a substantial renovation of the existing library space in Fall 2021. The upper two floors in the Spruce Building are under construction. The entire building is remediated and being brought up to current codes, the mechanical and electrical systems will be upgraded to high-efficiency systems throughout.

The College will continue to demonstrate its commitment as a post-secondary institution to reduce greenhouse gas emissions, while engaging all members of the college community, by supporting the many initiatives that contribute to sustainability and the reduction of our carbon footprint.

Coast Mountain College GHG Emissions and Offset for 2021 (tCO ₂ e)	
GHG Emissions created in Calendar Year 2021	
Total Emissions (tCO ₂ e)	1004
Total BioCO ₂	2.36
Adjustments to Offset Required Emissions in Prior Years (2018 and 2019)	0
Total Offsets (tCO ₂ e)	1004
Offset Investment (\$25 per tCO₂e)	
Grand Total Offsets (tCO ₂ e)	25,100

Coast Mountain College, 2021



- Direct Fuel Combustion, t CO₂e, GHG, All
- Purchased Energy, t CO₂e, GHG, All
- Mobile Energy Use, t CO₂e, GHG, All
- Office Paper, t CO₂e, GHG, All
- Fugitive Emissions, t CO₂e, GHG, All

Actions Taken to Reduce Greenhouse Gas Emissions in 2021

- Envelope repairs (Specifically roof repairs and upgrades) at Smithers Building.
- Electrical Panel Surge Suppressor installed at Smithers to prevent electrical issues.
- HVAC upgrades at Terrace Boiler Plant – Air Separators installed to Boilers.
- Replaced old dysfunctional dishwasher, fire suppression system and all air exhaust motors including post fire suppression cleaning system Cafeteria-Terrace.
- Upgrade of lighting to LED in numerous locations across campuses.
- Heat trenches and Elbows replaced in Spruce Building- Terrace.
- Replaced Perimeter heating system in Cafeteria Building - Terrace.
- Replaced Air Handling Unit fan in Jackpine- Terrace.
- Roof/ Envelope repairs in Hazelton campus.
- Electrical Panel Surge Suppressor install in Prince Rupert.
- Furnace Replacement in Houston Building.
- HVAC upgrades in Smithers building
- Various Boilers and HVAC upgrades on Terrace Campus.

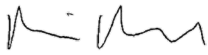
Plans to Continue Reducing Greenhouse Gas Emissions in 2022

- Continued replacement of older fleet vehicles with more fuel efficient and/or electric vehicles
- Continued replacement of aging infrastructure with new, high efficiency equipment
- Transition to working from home means a significant reduction in electricity and heat use across campuses
- Implementation of lighting controls at Smithers.
- Design and construction of Lighting controls at Prince Rupert Campus
- Replacement of Perimeter Heat System - Hydronic Fin Tube Renewal at Prince Rupert.
- Transition to Distributed Learning means a significant reduction in paper use and printing on campus
- Spruce Upper Levels construction has a number of benefits as current codes and High efficiency equipment is being used.
- Continued monitoring of fuel, gas and electricity use.

Retirement of Offsets:

In accordance with the requirements of the Climate Change Accountability Act and Carbon Neutral Government Regulation, Coast Mountain College is responsible for arranging for the retirement of the offsets obligation reported above for the 2021 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy 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 30, 2022

Signature

Date

Michael Doyle

Vice-President, Corporate Services

Name

Title

