



**The path
forward.**

Coast Mountain College 2020 Carbon Neutral Action Report



**Wide open
learning.**

Declaration Statement

This Carbon Neutral Action Report for the period January 1, 2020 to December 31, 2020 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2020 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2021 and beyond.

By June 30, 2020 Coast Mountain College's final 2019 *Carbon Neutral Action Report* will be posted to our website at www.coastmountaincollege.ca

Executive Summary

Coast Mountain College is pleased to submit its 2020 Carbon Neutral Action Plan. This year's report contains our 2020 emissions profile, offsets purchased, the actions we have taken in 2019 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 completed a substantial upgrade to our heating system in two buildings replacing the hydronic fin heaters and upgrading the washrooms for efficiency and water consumption.

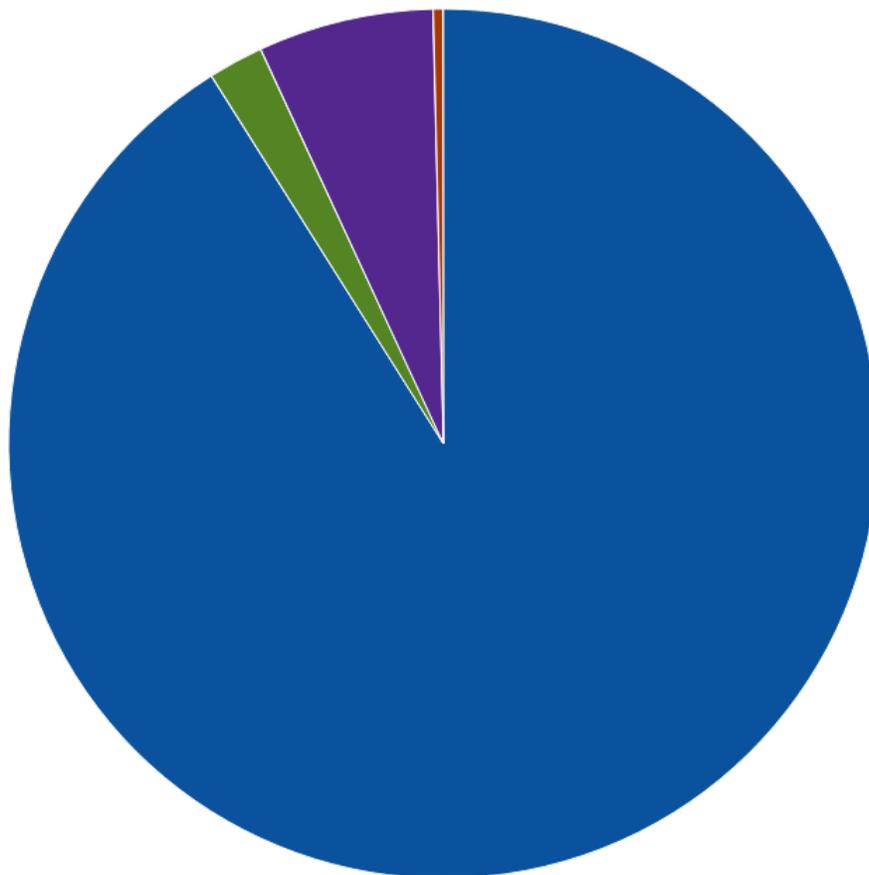
The College is excited to be in the planning stages of two major projects that will both significantly reduce our emissions, and enhance student experience and services on our campus. The new Housing Project, to be completed in Summer of 2021 is being built to BC StepCode 4 guidelines to replace aging buildings constructed in 1970. This modern space will replace the old, inefficient buildings, which will be removed from campus in accordance with our strategic plan. This will be a significant project that will reduce emissions and provide students with a modern facility that mirrors our natural surroundings and unique history in its design.

Additionally the College is moving forward with a substantial renovation of the existing library space and the upper two floors in the Spruce Building. The entire building will be remediated and brought up to current codes, 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 2020 (tCO ₂ e)	
GHG Emissions created in Calendar Year 2020	
Total Emissions (tCO ₂ e)	1082
Total BioCO ₂	2.43
Adjustments to Offset Required Emissions in Prior Years (2018 and 2019)	112
Total Offsets (tCO ₂ e)	1194
Offset Investment (\$25 per tCO₂e)	
Grand Total Offsets (tCO ₂ e)	29,850

Coast Mountain College, 2020



- 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

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

Actions Taken to Reduce Greenhouse Gas Emissions in 2020

- Repairs made to aging Perimeter Heat System - Hydronic Fin Tube Renewal at Jackpine and Lakelse Buildings
- New multi-speed pumps and drives were installed to replace all old single speed pumps throughout campus. These units allows pumps to slow down when demand for hot water is low, with a potential power reduction of up to 40% per unit
- Replacement of aging infrastructure including exterior envelope, plumbing, and mechanical in Birch Building
- Window Grid Renewal in Hazelton.
- Upgrade of lighting to LED in numerous locations across campus
- Electrical upgrades at Hazelton, Smithers, Prince Rupert and Terrace campuses.
- Replaced all furnaces at Hazelton to high efficiency units.
- Sanitary sewer upgrades at Prince Rupert.
- Design for lighting controls replacement at Smithers
- Roof Repairs and vents at Kitimat
- Roof inspection for replacement at Smithers
- Envelope sealing and leakages on Birch Building
- Exhausts replacement at Kitimat.

Unfortunately, vehicles used for travel increased due to single person use as per COVID restrictions.

Plans to Continue Reducing Greenhouse Gas Emissions in 2021

- 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

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 2020 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 27, 2020

Signature

Date

Michael Doyle

Vice-President, Corporate Services

Name

Title

