



**The path  
forward.**

# Coast Mountain College 2019 Carbon Neutral Action Report



**Wide open  
learning.**

## Declaration Statement

This Carbon Neutral Action Report for the period January 1, 2019 to December 31, 2019 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2019 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2020 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](http://www.coastmountaincollege.ca)

## Executive Summary

Coast Mountain College is pleased to submit its 2019 Carbon Neutral Action Plan. This year's report contains our 2019 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 30<sup>th</sup> Coast Mountain College's final CNAR will be posted to our website at [www.coastmountaincollege.ca](http://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 DDC (Digital Direct Controls) system. The new system includes a new graphic interface and a comprehensive control system allowing us to fine-tune heating in specific areas, schedule dust extraction, and reduce fuel consumption. This upgrade also allows us to schedule lighting campus-wide, significantly reducing our electrical usage.

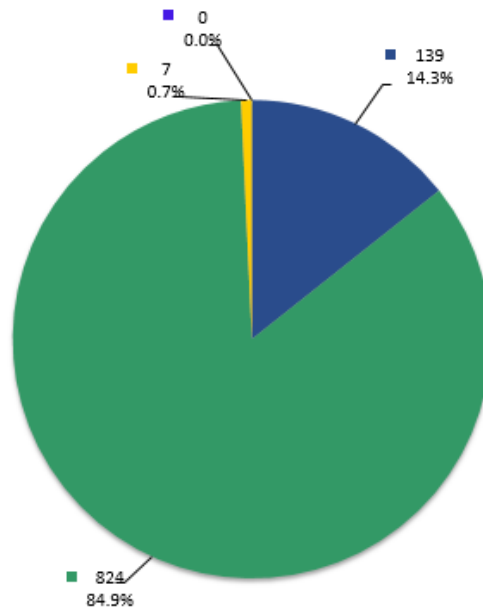
The College is excited to be in the planning stages of two major projects that will both significantly reduce our emissions, and enhance student experience and services on our campus. Specifically, we intend to build a new student housing facility using BC StepCode 4 guidelines to replace aging buildings 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 preparing to move forward with a substantial renovation of the existing library space in the Spruce Building. This area will be remediated and brought up to current codes, and 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 2019 (tCO <sub>2</sub> e)	
<b>GHG Emissions created in Calendar Year 2019</b>	
Total Emissions (tC)	970
Total BioCO <sub>2</sub>	4.66
Total Offsets (tCO <sub>2</sub> e)	963
<b>Offset Investment (\$25 per tCO<sub>2</sub>e)</b>	
Grand Total Offsets (tCO <sub>2</sub> e)	24,075

**Coast Mountain College  
Greenhouse Gas Emissions by Source  
for the 2018 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 970**

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)
- Fugitive Sources

## Actions Taken to Reduce Greenhouse Gas Emissions in 2019

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- Repairs made to aging hot water distribution systems in Birch Building
- 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
- A/C units at end of useful life were replaced with high efficiency heat pump systems, resulting in an immediate reduction in electricity use
- Replacement of aging infrastructure including exterior envelope, plumbing, and mechanical in Birch Building
- Replacement of aging infrastructure including HVAC systems in Spruce building to reduce GHG emissions
- Upgrades made to roofing envelope, mechanical and electrical systems during installation of Wellness Centre in Cedar Building
- Upgrade of lighting to LED in numerous locations across campus
- Upgrade to MUA pump in Spruce building a new, high efficiency pump, requiring less electricity and fuel
- Water heater replaced with high efficiency unit at Prince Rupert Campus

## Plans to Continue Reducing Greenhouse Gas Emissions in 2020

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- 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
- Transition to Distributed Learning means a significant reduction in paper use and printing on campus

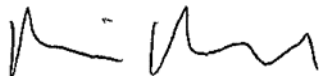
## Retirement of Offsets:

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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 2019 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

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June 04, 2020

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Signature

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Date

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Michael Doyle

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Vice-President, Corporate Services

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Name

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Title

