



2018 Carbon Neutral Action Report

COAST MOUNTAIN BOARD OF EDUCATION SD#82

Travis Elwood | May 23, 2019

Declaration statement: This Carbon Neutral Action Report for the period January 1st, 2018 to December 31st, 2018 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2018 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2019 and beyond.

By June 30, Coast Mountains Board of Education #82 final *Carbon Neutral Action Report* will be posted to our website at www.cmsd.bc.ca.

Overview:

Coast Mountains Board Of Education School District #82 has continued to strive for energy conservation throughout 2018. The maintenance staff have implemented a program of replacing all lightbulbs in the district with energy saving LED light bulbs. Materials for all buildings have been purchased and 50% of all lights have been upgraded so far.

A Geothermal heating system installed at one of the High Schools in Hazelton is expected to provide significant reductions of propane consumption in the years to come. Training for staff to operate the buildings heating and ventilation controls provided by the district and internal system adjustments continue to care for comfort levels as well as reduce the unnecessary consumption of energy.

In 2019 boiler system replacement projects in 2 schools as well as HVAC controls recommissioning throughout the District are expected to produce significant reductions in energy consumption.

Total Offset Investment (Grand Total Offsets Required X \$25/tCO ₂ e)	69225
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**Note, for School Districts, Total Offsets will not equal Total Emissions minus Total BioCO₂ because offset exemptions for school buses are included within Total Emissions.*

Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, *Coast Mountains Board of Education School District #82 (the Organization)* is responsible for arranging for the retirement of the offsets obligation reported above for the 2018 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.

Coast Mountain Board of Education School District #82 GHG Emissions and Offset for 2018 (tCO₂e)	
GHG Emissions created in Calendar Year 2018	
Total Emissions (tCO ₂ e)	2778
Total BioCO ₂	1.69
Total Offsets (tCO ₂ e)	2772
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (tCO ₂ e)	-3
Total Offsets (tCO ₂ e)	-3
Grand Total Offsets for the 2018 Reporting Year	
Grand Total Offsets Required (tCO ₂ e)	2769

Executive sign-off: [To be signed by a senior official, such as CEO, COO or Superintendent]



May 23 2019

Signature

Date

Ray McDonald.

Secretary Treasurer

Title

Name (please print)

Part 1: CNAR Survey

1. General Information

Name: travis elwood

Contact Email: travis.elwood@cmsd.bc.ca

Organization Name: caost mountains board of education school district #82

Sector: School District

Role - Please select your role(s) below.

If more than one individual completed the survey, multiple categories may be selected:

Energy Manager: No

Sustainability Coordinator: No

Administrative Assistant: No

Facilities/Operations Manager/Coordinator: Yes

CEO/President/Exec Director: No

Treasurer/Accounting: No

Superintendent: No

A. Stationary Sources (e.g. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

1. Actions taken by your organization in 2018 to support emissions reductions from buildings.

a) Do you have a strategy to reduce emissions from stationary sources?

No

b) Whether you have a strategy or not (1.a), briefly describe your organization's plans to continue reducing emissions from stationary sources:

I. Over the medium-term term (1-5 years)

introduction of Ipads and tablets for classrooms

c) Please describe your strategy's goals (if any) related to [energy audits](#).

using utility manager software we monitor and audit the consumption of energy for each site. We plan to share this info with site administrators to encourage conservation behaviour.

I. What % on average of your building portfolio has an energy audit completed each year (if any)?: 10

d) Please describe your strategy's goals (if any) related to building retrofits.

replacing less efficient boilers and hot water heaters with high efficiency units .
Classroom unit ventilators with occupancy sensors and co2 sensors

I. What % on average of your building portfolio is retrofitted each year in the following categories (if any) - click [here](#) for further information:

Minor retrofits (e.g., low cost, easy to implement measures including caulking, lighting, adding roof insulation, etc.) (%): 10

Major retrofits (e.g., replacing windows and doors, equipment replacement such as boilers, etc.) (%): 5

Deep retrofits (e.g., replacing roof, replacing the heating, ventilation and air-conditioning system with a renewable technology like a ground-source heat pump, etc.) (%): 5

e) Please describe your strategy's [re/retro-commissioning](#) goals (if any)?

working with our controls contractor we have recommissioned the operation and controls of the worst consumers of energy buildings

I. What % on average of your building portfolio do you recommission each year?: 5

f) Do you keep records of Refrigerant gases category and refilling volumes?

No

II. What, if any, mitigation approaches have been considered? Please describe.

na

II. Please explain why LEED Gold certification was not obtained.

na

h) Other actions? Please describe briefly.

na

B. Mobile Sources (Vehicles, Off-road/portable Equipment): Fuel Combustion:

3. Actions taken by your organization in 2018 to support emissions reductions from mobile sources.

a) Do you have a strategy to reduce emissions from mobile sources?

Yes

I. If yes, what are its goals?

car pooling
smaller engine model vehicles

b) Whether you have a strategy or not (3.a), briefly describe your organization's plans to continue reducing emissions from mobile sources:

I. Over the medium-term term (1-5 years)

fleet replacement

II. Over the long term (6-10 years)

fleet replacement

c) How many fleet vehicles did you purchase from the following categories:

Gas/diesel vehicle: 3

I. If you purchased new gas/diesel vehicles, can you briefly explain why vehicles from the other categories were not chosen?

availability of refueling stations and replacement costs

d) How many existing EV charging stations does your organization have in each category:

level 2: 0

level 3: 0

How many level 2 stations (if any) are specifically for your fleet vehicles: 0

How many level 3 stations (if any) are specifically for your fleet vehicles: 0

e) How many EV charging station(s) did you install in 2018 in each category:

level 2: 0

level 3: 0

How many level 2 stations (if any) were installed specifically for your fleet vehicles: 0

How many level 3 stations (if any) were installed specifically for your fleet vehicles: 0

4. Please indicate the number of the vehicles in the following vehicle classes that are in your current fleet (including any purchased in 2018):

Definitions:

- Light duty vehicles (LDVs) are designated primarily for transport of passengers <13 and GVWR<3900kg
- Light duty trucks (LDTs) are designated primarily for transport of light-weight cargo or that are equipped with special features such as four-wheel drive for off-road operation (include SUVs, vans, trucks with a GVWR<3,900kg)
- Heavy duty vehicles (HDV) includes vehicles with a GVWR>3,900 kg (e.g. ¾ tonne pick-up truck, transport trucks)

a) Light duty vehicles (LDVs)

Gas/diesel: 3

b) Light duty trucks (LDTs)

Gas/diesel: 30

c) Heavy duty vehicles (HDV)

Gas/diesel: 10

5. Please indicate the number of the vehicles you plan to replace in your fleet:

How much do you budget per LDV?: 35000

How many LDVs do you plan to procure annually over the next 5 years?: 3

How much do you budget per LDT?: 40000

How many LDTs do you plan to replace annually over the next 5 years?: 15

How much do you plan to spend per HDV?: 60000

How many HDVs do you plan to replace annually over the next 5 years?: 3

C. Office Paper: Indicate which actions your PSO took in 2018:

6. Actions taken by your organization in 2018 to support emissions reductions from paper supplies.

a) Do you have an Office Paper strategy?

No

b) Whether you have a strategy or not (6.a), briefly describe your organization's plans to continue reducing emissions from paper use:

I. Over the medium-term (1-5 years)

encourage the use of office 365 to share info

c) Have an awareness campaign focused on reducing office paper use

No

d) Purchased alternate source paper (bamboo, hemp, wheat, etc.)

No