



Coast Mountains Board of Education School District 82

3211 Kenney Street, Terrace, BC V8G 3E9

Tel. (250) 635-4931 or 1-855-635-4931 - Fax 1-888-290-4786 - www.cmsd.bc.ca

2016 CARBON NEUTRAL ACTION REPORT

Declaration Statement

This Carbon Neutral Action Report for the period January 1, 2016 to December 31, 2016 summarizes our emissions profile, the total offsets to reach net-zero-emissions, the actions we have taken in 2016 to reduce our greenhouse emissions and our plans to continue reducing emissions in 2017 and beyond.

By June 30, 2017, Coast Mountains Board of Education's final Carbon Neutral Action Report will be posted to its website at www.cmsd.bc.ca.

Executive Summary

Coast Mountains Board of Education School District 82 and its 19 schools are working to become leaders in Northern B.C. in sustainable practices and environmental awareness. The district's commitment to promoting environmentally friendly practices and reducing our collective carbon footprint is reflected at all levels of the organization.

The Board of Education of Coast Mountains School District is proud to have supported many energy conservation initiatives over the past 13 years, which have contributed to moving us closer to carbon neutrality. These include lighting upgrades school district wide, which eliminated the use of both T12 lighting and incandescent lighting, changing to LED bulbs and fixtures within the school district, the implementation of direct digital controls for heating systems and the completion of a program to support motion-sensor lighting inside schools and daylight sensors for external lighting control. In addition, the Board of Education has continued to replace high-temperature boilers with energy-efficient condensing boiler systems.

Overview

2016 Greenhouse Gas Emissions and Offsets Applied

In 2016, Coast Mountains School District 82 generated a total of 2,511 tonnes of CO₂e. In order to become carbon neutral for 2016, the school district purchased 2,936 tonnes of emission offsets with a total value of \$77,070.

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Coast Mountains Board of Education School District 82

Actions Taken to Reduce Greenhouse Gas Emissions in 2016

Coast Mountains Board of Education continues to promote environmental responsibility through the education system in all of its schools by providing both support and information to school principals, teachers and parent advisory committees throughout the school district. Schools employ recycling programs, composting programs, and energy conservation programs within each site. The school district will work to coordinate these efforts at a broader level in order to maximize the benefits and create a stronger consistency of program delivery between all schools.

Coast Mountains Board of Education has continued to replace aging boilers in its schools and renovate/retrofit facilities as funding is available. The Board of Education installed occupancy sensors to control lighting in all school classrooms and gyms including the replacement of 32-watt lamps with 28-watt lamps in 11 facilities and the replacement of all light bulbs with 9-watt LED bulbs in 2 schools. In addition, 2 schools were upgraded with energy-efficient windows, and 2 schools underwent the replacement of older high-temperature boilers with condensing boilers, which will significantly reduce the school district's natural gas and propane heating consumption.

There are currently many projects and initiatives that have been carried out in schools and classrooms throughout Coast Mountains School District 82 in 2016. These include, but are not limited to, recycling programs, anti-idling signage, walk-to-school initiatives, turn-it-off programs for lighting and computers, composting, creating a community garden, tree planting, and water conservation awareness. District schools also participate in a number of celebrations revolving around Earth Day. In 2016, Coast Mountains School District adopted a new Energy Conservation Policy and is currently engaged in developing a Strategic Energy Management Plan.

Plans to Continue Reducing Greenhouse Gas Emissions 2017

Coast Mountains Board of Education will continue to promote green teams, student-learning initiatives, and increase the educational presence on the sustainability committee to provide further support to our schools.

The school district will continue upgrades to its boiler plants, mechanical systems, control systems, and building envelopes to optimize its energy utilization.

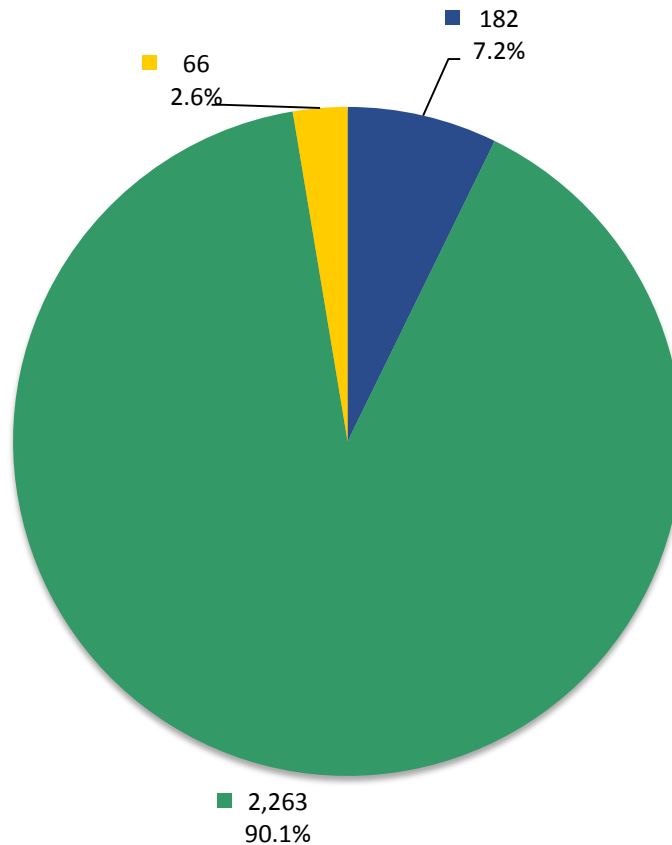
Alanna Cameron

Secretary Treasurer

Coast Mountains Board of Education School District 82

Date: 5/30/17

**School District 82 - Coast Mountain
Greenhouse Gas Emissions by Source
for the 2016 Calendar Year (tCO₂e*)**



Total Emissions: 2,511

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

Offsets Applied to Become Carbon Neutral in 2016 (Generated May 15, 2017 3:43 PM)

Total offsets required: **2,489**. Total offset investment: **\$62,225**. Emissions which do not require offsets: **22** **

*Tonnes of carbon dioxide equivalent (tCO₂e) is a standard unit of measure in which all types of greenhouse gases are expressed based on their global warming potential relative to carbon dioxide.

** Under the *Carbon Neutral Government Regulation of the Greenhouse Gas Reduction Targets Act*, all emissions from the sources listed above must be reported. As outlined in the regulation, some emissions do not require offsets.

2016 Carbon Neutral Action Report Survey

Part One (external)

Contact Name(s):

Travis Elwood

Organization Name:

Coast mountains board of education #82

Please select your sector:

- School District

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

During 2016, did your organization take any of the following actions to support emissions reductions from buildings?

Select all that apply

- Conducted an energy audit/study of building(s) in the organization's portfolio
- Performed energy retrofits of the organization's buildings.: 1

Briefly describe your organization's plans to continue reducing emissions from its stationary sources in future years.

encouraging staff to only print emails, documents if necessary

During 2016, did your organization participate in utility-sponsored energy demand management program(s) (e.g. BC Hydro's Energy Management (Manager))?

No

If yes, please describe briefly:

(No response)

2) Mobile Sources (Vehicles, Off-road/Portable Equipment): Fuel Combustion.

During 2016, did your organization take any of the following actions to support emission reductions from its mobile sources?

Select all that apply

-
- Replaced existing vehicles with more fuel efficient vehicles (gas/diesel).: 3
-
- Took steps to drive less than previous years.

Briefly describe your organization's plans to continue reducing emissions from its mobile sources in future years.

smaller engines for the fleet vehicles, using phone conferencing more,

3) Supplies (Paper):

During 2016, did your organization take any of the following actions to support emissions reductions from paper supplies?

Select all that apply

(No response)

Briefly describe your organization's plans to continue reducing emissions associated with its office paper use in future years.

(No response)

4) Other Sustainability Actions:

Business Travel:

During 2016, did your organization take any of the following actions to support emissions reductions from business travel?

Select all that apply

-
- Other, please describe briefly: car pooling for travel whenever possible
-

Education Awareness:

During 2016, did your organization have any of the following programs or initiatives to support sustainability education and awareness?

Select all that apply

(No response)

Other Sustainability Actions:

During 2016, did your organization have any of the following programs or initiatives to support sustainability?

Select all that apply

-
- An operations policy or program to facilitate the reduction and diversion of building occupant waste (e.g., composting, collection of plastics, batteries) from landfills or incineration facilities
-