



School District No. 47 (Powell River)

Title: 2017 Carbon Neutral Action Report

Organization Name: School District 47 (Powell River)

Declaration Statement:

This Carbon Neutral Action Report for the period January 1st to December 31st, 2017 summarizes our emissions profile, the amount of offsets purchased to reach net zero emissions, the actions we have taken in 2017 to reduce our greenhouse gas emissions, and plans to continue reducing emissions in 2018 and beyond.

Overview:

In 2017, School District 47 continued to work towards its ongoing goal of reducing its carbon footprint. One of the largest contributions to the reduction of greenhouse gases is expected to come from a thermal window and furnace upgrade at James Thomson Elementary School. This renovation included the replacement of all single paned windows and some doors as well included the replacement of an inefficient electric furnace. These improvements, when combined with the efficiencies of a recent boiler upgrade a few years ago, are expected to decrease natural gas consumption and reduce overall operating costs.

In 2017, we also completed an LED lighting upgrade in the Theatre at Brooks Secondary School as well rebuilt and upgraded the second of the two boilers servicing the School. These improvements will each contribute to reduced energy costs in the years to come.

Planned for the summer of 2018 is an upgrade of the DDC Mechanical Controls and the replacement of the Lighting Controls at Brooks Secondary School which will bring to conclusion all of the planned mechanical upgrades that have been taking place at that school over the last

few years. Also planned for 2018 is an increase to the existing solar capacity in place at the Haywire Bay Outdoor learning Centre.

On the school level, School District 47 continues to take pride in educating the next generation to protect our future by continuing to fund various Sustainable School Initiatives. Part of the mandate of the Board of Education is to increase awareness of, and, positive action in regard to reducing our carbon footprint in practical ways. Schools have further incentive to participate, as some of the financial savings have been returned to the schools to fund future projects, such as gardening programs and eco-friendly playground equipment. Other examples, on a smaller scale, are school recycling programs, which allow schools to use monies “earned” from returning beverage containers for classroom supplies. The Outdoor Learning Centre (OLC), completed in 2012, continues to be a contributing factor to the education of students, in both its operation and programs offered. The OLC consists of several cabins and a main lodge, run largely on solar power and maintains other environmentally friendly operating practices. Each year, the OLC offers numerous educational programs to District students, instructing them in practices such as composting, and use of renewable energy sources in a hands-on way.

Evidence of our efforts can be found in the continued maintenance of lower greenhouse gas emissions. Our **Total GHG Emissions for 2017 were 1,134** with **906 in offsets** to make us Carbon Neutral.

We believe in the benefits of our continued efforts and look forward to seeing a further reduction in offsets over the next few years. Financially, we aim to put some of the savings directly back into our schools, funding materials that continue to educate and provide awareness of how to reduce our carbon footprint. Environmentally, we aim to make our small actions have a big impact, both in the present and in the future, as our students take what they’ve learned into their adult lives, into our community and far beyond. Socially, we aim to provide awareness and collaboration that our students would take what they’ve learned and share it with others. We are proud of our District, and continue to be amazed at the significant efforts from both staff and students in making positive changes that will better our world for years to come.

Emissions and Offsets Summary Table:

School District 47 (Powell River) GHG Emissions and Offsets for 2017

GHG Emissions created in Calendar Year 2017

Total Emissions (TCO2E) 1,134

Total Offsets (TCO2E) 906

Adjustments to GHG Emissions Reported in Prior Years

Total Emissions (TCO2E) 4

Total Offsets (TCO2E) 4

Grand Total Offsets for the 2017 Reporting Year

Grand Total Offsets 910

Sincerely,



Steve Hopkins
Secretary Treasurer



Jay Yule
Superintendent

May 31, 2018

Part 1: CNAR Survey

1. General Information

Name: Steve Hopkins

Contact Email: steve.hopkins@sd47.bc.ca

Organization Name: School District 47 (Powell River)

Sector: School District

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

During 2017, did your organization take any of the following actions to support emissions reductions from buildings? (please select all that apply)

Performed energy retrofits of the organization's building(s)

If you selected "*Performed energy retrofits of the organization's building(s)*":

How many buildings were retrofitted?: 2

If you selected "*Built, or are building new LEED Gold or other "Green" buildings*":

How many new "Green" buildings?:

Did your Organization perform any retrofits during 2017? Please describe briefly:

Yes all the work identified above was performed in 2017. We did an LED lighting upgrade in the secondary school performance theater space as well re-built one of the two main boilers in the secondary school that the Theater is a part of.

We also replaced a furnace in an elementary school that is used for a 6 room annex as well in the main wing of the same elementary school we replaced all of the old wooden and aluminium window with new thermal vinyl windows.

2a. Stationary Sources (eg. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

Please briefly describe your organization's plans to continue reducing emissions from its stationary sources:

a) Over the next 1-5 years

Will continue to upgrade infrastructure as opportunities present themselves

b) Over the following 6-10 years

Will continue to upgrade infrastructure as opportunities present themselves

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

During 2017, did your organization take any of the following actions to support emission reductions from its mobile sources? (please select all that apply)

None of the above

If you selected "*Replaced existing vehicles with more fuel efficient vehicles (gas/diesel)*":

How many vehicles?:

If you selected "*Replaced existing vehicles with hybrid or electric vehicles*":

How many vehicles?:

3a. Mobile Sources (Vehicles, Off-road/portable Equipment): Fuel Combustion:

Please briefly describe your organization's plans to continue reducing emissions from its mobile sources:

a) Over the next 1-5 years

We will continue explore opportunities to upgrade the equipment in our fleet as equipment ages or funding opportunities present themselves.

b) Over the following 6-10 years

We will continue explore opportunities to upgrade the equipment in our fleet as equipment ages or funding opportunities present themselves.

4. Supplies (Paper): Indicate which actions your PSO took in 2017:

During 2017, did your organization take any of the following actions to support emissions reductions from paper supplies? (please select all the apply)

Had an awareness campaign focused on reducing office paper use

4) Supplies (Paper): Indicate which actions your PSO took in 2017: - Other? Please describe briefly:: We already require the purchase of recycled content paper which we continue to maintain

If you selected "*Had a policy requiring the purchase of recycled content paper*":

State the required recycled content here (30%, 50%, 100%):

If you selected "*Had a policy requiring the purchase of alternate source paper (bamboo, hemp, wheat, etc)*", which type of alternate source paper did you use?

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

We will continue to purchase paper with recycled content or from alternative sources as well will continue to move to a more digitized business platform

5. Other Sustainability Actions

a) Business Travel

During 2017, did your organization take any of the following actions to support emissions reductions from business travel? (please select all that apply)

Encouraged alternative travel for business (e.g. bicycles, public transit, walking)

b) Education/Awareness

During 2017, did your organization have any of the following programs or initiatives to support sustainability education and awareness? (please select all that apply)

A Green, Sustainability or Climate Action Team; Support for professional development on sustainability (e.g. workshops, conferences, training); Supported or provided education to staff about the science of climate change, conservation of water, energy and/or raw materials

c) Other Sustainability Actions

During 2017, did your organization have any of the following programs or initiatives to support sustainability? (please select all that apply)

A water conservation strategy which may include a plan or policy for replacing water fixtures with efficient models; 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