2018 Carbon Neutral Action Report

School District No. 52 (Prince Rupert)

Declaration statement:

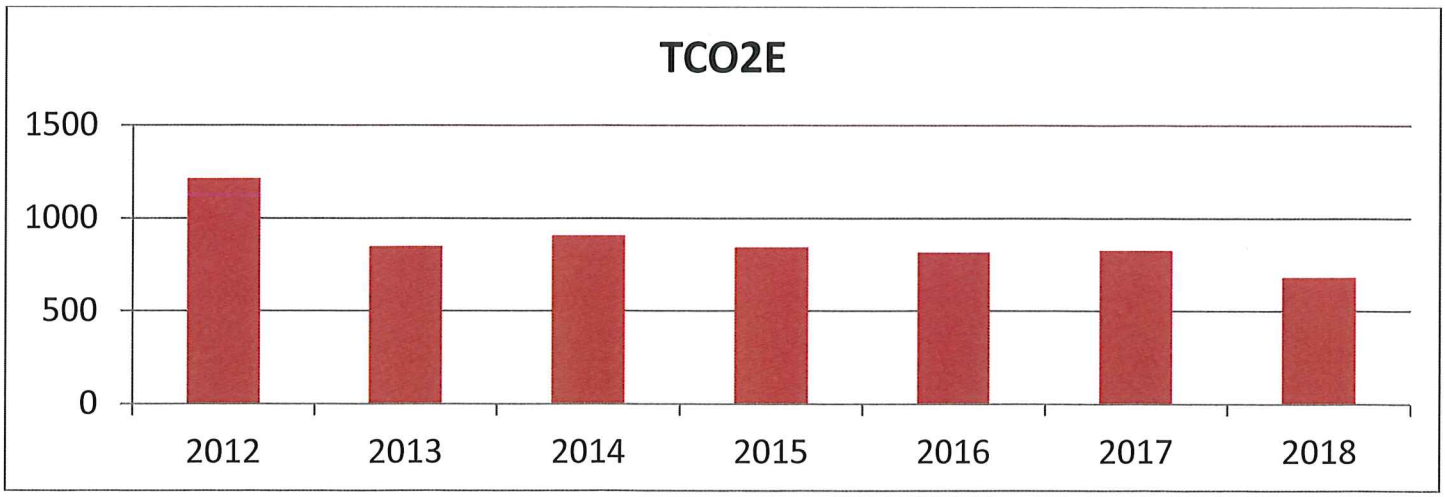
This Carbon Neutral Action Report for the period January 1st, 2018 to December 31st, 2018 summarizes the emissions profile, the total offsets to reach net-zero emissions, the actions taken in 2018 to reduce greenhouse gas emissions and plans to continue reducing emissions in 2019 and beyond.

By June 30, 2019 the final *Carbon Neutral Action Report* for School District No. 52 (Prince Rupert) will be posted to the district website at www.rupertschools.ca.

Executive Summary

School District No. 52 is a district of approximately 2,000 students. In 2018 the district educated its students in five elementary schools, one middle school, one secondary school, one Aboriginal village school and one distributed learning storefront school. The district is supported by a maintenance building, an aboriginal education administration building and a board office. Six Prince Rupert trustees and one rural trustee represent the communities of School District No. 52. Of its 15 sites, 12 are owned (3 of these are currently closed with no heat maintained in 2 of the 3), 1 is band owned and 2 are leased. The average age of the owned buildings is over 40 years.

With funding being scarce and aging facilities, the District looks to carbon neutral projects that deliver savings directly or indirectly by reducing maintenance on its facilities and vehicles. In the last four years the district has completed a number of energy efficiency upgrades. The cumulative impact of these improvements is demonstrated by the decreasing tonnes of emissions from the district.



Overview

2018 Greenhouse Gas Emissions

Actions Taken to Reduce Greenhouse Gas Emissions in 2018

School District No. 52's key actions taken during 2018 toward carbon neutrality were the completion of energy upgrades at the middle school. School District No. 52's efforts are aimed at retrofitting aging buildings with higher efficiency equipment and consideration of replacement or closure of buildings. The district is looking to take advantage of fossil fuel reduction projects like lighting retrofits and HVAC system upgrades, including boilers – particularly where there is sharing of project funding, a reasonable payback period or straight savings to the district. Additional boiler study work was completed in 2018.

Plans to Continue Reducing Greenhouse Gas Emissions in 2019

Implementation of an energy efficiency project will be completed at an elementary school in 2019. Work has also been approved for a boiler replacement in another elementary school. Work is also underway towards the eventual replacement of the middle school.

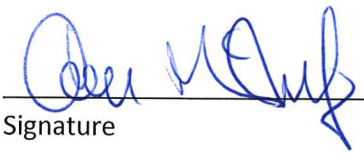
Emissions and Offsets Summary

***School District No. 52 (Prince Rupert)* GHG Emissions and Offsets for 2018 (TCO2E)**	
GHG Emissions created in calendar year 2018 (from SMARTTool Homepage):	
Total Emissions (tCO_2e)	*675*
Total BioCO_2	*2*
Total Offsets (tCO_2e)	*682*
Adjustments to GHG Emissions Reported in Prior Years *(*from SMARTTool Homepage*):*	
Total Emissions (tCO_2e)	*-23*
Total Offsets (tCO_2e)	*-22*
Grand Total Offsets for the 2018 Reporting Year *(*from SMARTTool Homepage*):*	
Grand Total Offsets Required (tCO_2e)	660
Total Offset Investment (*Grand Total Offsets Required X $25/$tCO_2e$*)	*$16,500*

Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, School District No. 52 (Prince Rupert) 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 district hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy ensuring that these offsets are retired on the district's behalf, the district will pay 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:



Signature

May 30, 2019

Date

Cam McIntyre, CPA, CA

Name

Secretary-Treasurer

Title

Part 1: CNAR Survey

1. General Information

Name: Cam McIntyre

Contact Email: Cam.McIntyre@sd52.bc.ca

Organization Name: School District No. 52 (Prince Rupert)

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: No

CEO/President/Exec Director: No

Treasurer/Accounting: Yes

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?

Yes

If yes above, what are the main goals?: Upgrade boilers, heating control systems and lighting.

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)

Upgrade boilers, heating control systems and lighting.

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

Upgrade boilers, heating control systems and lighting.

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

None

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.

Upgrade boilers, heating control systems and lighting.

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.) (%): 10

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.) (%): 0

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

None

I. What % on average of your building portfolio do you recommission each year?: 0

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

No

I. If yes, have you included the associated emissions in your reporting?

No

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

No buildings have air conditioning.

g) How many newly constructed buildings received at least LEED Gold certification in 2018: 0

I. How many newly constructed buildings did not receive LEED Gold certification?: 0

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

n/a

h) Other actions? Please describe briefly.

None

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?

Replace with more fuel efficient 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)

Replace with more fuel efficient vehicles

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

Replace with more fuel efficient vehicles

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

Electric Vehicle – EV - (e.g., Nissan Leaf, Chevy Bolt): 0

"Plug In" Electric Vehicle – PHEV (e.g., plug-in Prius, Chevy Volt): 0

Hybrid vehicle – HEV – non "Plug In"- (e.g., Toyota Highlander Hybrid): 0

Hydrogen fuel cell vehicle : 0

Natural gas/propane: 0

Gas/diesel vehicle: 0

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

f) Other actions, please describe briefly (e.g. charging station feasibility studies, electrical panel upgrades, etc.)

None

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)

Electric Vehicles – EV - (e.g., Nissan Leaf, Chevy Bolt): 0

"Plug In" Electric Vehicle – PHEV -- (e.g., plug-in Prius, Chevy Volt) : 0

Hybrid vehicles – HEV – (e.g., non "Plug In"- older Toyota Prius, Toyota Camry hybrid): 0

Hydrogen fuel cell vehicles: 0

Natural gas/propane: 0

Gas/diesel: 2

b) Light duty trucks (LDTs)

Electric Vehicles – EV : 0

"Plug In" Electric Vehicle – PHEV: 0

Hybrid vehicles – HEV – (e.g., non "Plug In"- older Ford Escape Hybrid, older Chevrolet Silverado pickup hybrid etc): 0

Hydrogen fuel cell vehicles: 0

Natural Gas/propane: 0

Gas/diesel: 12

c) Heavy duty vehicles (HDV)

Electric Vehicles – EV : 0

"Plug In" Electric Vehicle – PHEV : 0

Hybrid vehicles – HEV – (e.g., non "Plug In"): 0

Hydrogen fuel cell vehicles: 0

Natural Gas/propane: 0

Gas/diesel: 5

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

How much do you budget per LDV?: 25000

How many LDVs do you plan to procure annually over the next 5 years?: 1

How much do you budget per LDT?: 35000

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

How much do you plan to spend per HDV?: 90000

How many HDVs do you plan to replace annually over the next 5 years?: 1

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?

Yes

I. If yes, what are its goals?

Use paper with recycled content and reduce paper use.

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)

Use paper with recycled content and reduce paper use.

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

Use paper with recycled content and reduce paper use.

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

No

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

No

e) Other actions, please specify.

None.