



SCHOOL DISTRICT #81 (FORT NELSON)
2018 CARBON NEUTRAL ACTION REPORT

Art on the cover was prepared for our Bi-Annual Earth Day Event entitled "Every Species Counts"

The students were encouraged to identify an animal that they were particularly interested in and recreate that animal using recycled material.

DECLARATION STATEMENT

This Carbon Neutral Action Report for the period January 1, 2018 to December 31, 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, 2019 School District #81 (Fort Nelson) final Carbon Neutral Action Report will be posted on our website at www.sd81.bc.ca.

EXECUTIVE SUMMARY

School District #81 (Fort Nelson) is in the northeastern corner of British Columbia. With a population of less than 800 students it is one of the smallest school districts in the province. The community of Fort Nelson has been challenged in most recent years with a downturn in the economy that has reflected itself in a constantly declining, unpredictable student population.

Within the Northern Rockies Regional Municipality, we have two primary schools with grades Kindergarten to four; an elementary school with grades five to seven; and a high school with grades eight to twelve. Two miles of scenic driving delivers you to our Grades 1 to 12 rural two room school.

The highlight in our district this year, to reduce our carbon footprint, was a boiler project at our highschool. We removed six – 55% mid-efficient boilers and replaced them with 3 – high efficient, 98% boilers.

As well, we replaced our paper towel holders with high efficient automatic hand dryers that are said to represent a 95% cost savings compared to using paper towels. This particular hand dryer is said to use 80% less energy than other hand dryers.

Our school staff continue to encourage students to reduce their carbon footprint through development of routine daily habits including participation in recycling of cans, water bottles, paper, and phonebooks to name a few; turning off the lights when you leave a room; and composting waste materials.

It is our intention to continue to encourage students and staff to focus on ways to reduce our carbon footprint.

EMISSIONS AND OFFSET SUMMARY TABLE

School District #81 (Fort Nelson) - GHG Emissions and Offset for 2018 (tCO₂e)	
GHG Emissions created in Calendar Year 2017	
Total Emissions (tCO ₂ e)	590
Total Offsets (tCO ₂ e)	590
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (tCO ₂ e)	77
Total Offsets (tCO ₂ e)	77
Grand Total Offsets for the 2017 Reporting Year	
	667
Grand Total Offsets (tCO ₂ e)	667

RETIREMENT OF OFFSETS

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, School District #81 (Fort Nelson) 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 totaling \$17,508.75.

Respectfully Submitted,



Diana Samchuck
Superintendent of Schools



Margaret-Anne Hall
Secretary-Treasurer

Part 1: CNAR Survey

1. General Information

Name: Margaret-Anne Hall

Contact Email: mhall@sd81.bc.ca

Organization Name: School District #81 (Fort Nelson)

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?: Our strategy was to replace all mid efficient boilers to high efficient. This project is complete.

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)

This project is complete unless new technology comes out.

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

Same as above.

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

We had a consultant prepare an energy audit on the entire district. We have used the information to identify areas to reduce energy.

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

We ensure that weather stripping is secure; we continue to replace our T12 bulbs with T8 and metric T12 with solid LED 2x4 panels

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 to date.

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?

Yes

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 leaks to date.

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.

No new buildings.

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?

To reduce emissions.

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)

Regular maintenance. To replace one maintenance van with a smaller engine. A newer van would have more emission controls as well.

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: 5

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

No provision for electric vehicles in Fort Nelson.

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)

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: 0

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: 5

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: 0

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

How much do you budget per LDV?: 0

How many LDVs do you plan to procure annually over the next 5 years?: 0

How much do you budget per LDT?: 0

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

How much do you plan to spend per HDV?: 0

How many HDVs do you plan to replace annually over the next 5 years?: 0

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?

To reduce consumption annually.

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)

Continue to identify ways of reducing paper usage.

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

Same as above.

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

No

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

No