

CNAR OVERVIEW

Title: 2017 Carbon Neutral Action Report

Organization name: School District #28 (Quesnel)

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

By June 30, 2018 School District #28 (Quesnel) final *Carbon Neutral Action Report* will be posted to our website at www.sd28.bc.ca.

Overview:

In 2017, the pellet boiler installed at Correlieu Secondary went live. This results in virtually no emissions and represents a significant reduction for our district. The boiler is located in the middle of two school sites and in future, the elementary school that it is adjacent to may utilize this boiler to heat the school. In addition, Correlieu also had two new high efficiency condensing boilers installed from old cast iron low-efficiency boilers which also reduce emissions. This operates when the pellet boiler is not operating. Also in 2017, the District also installed a new high efficiency boiler at Parkland Elementary school thus further reducing our emissions.

In 2018, the District plans on installing high efficiency hot water tanks at Riverview Elementary which is 30-35% more efficient. In the fourth and final phase of the HVAC upgrade at Correlieu, we plan on removing one gas-fired roof top heating unit. Furthermore, the District has been approved for 4 new buses to be received this year. These buses will be new and release fewer emissions than the buses being replaced. Similarly, we have replaced 2 maintenance trucks and an IT vehicle with brand new vehicles, which also emit fewer emissions than the older vehicles within our fleet.

Emissions and Offset Summary Table:

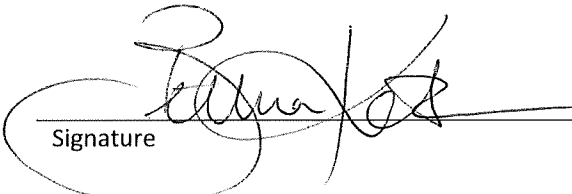
<i>SD 28 Quesnel</i> GHG Emissions and Offset for 2017 (tCO ₂ e)	
GHG Emissions created in Calendar Year 2017:	
Total Emissions (tCO ₂ e)	1,670
Total Offsets (tCO ₂ e)	1,007
Adjustments to GHG Emissions Reported in Prior Years:	
Total Emissions (tCO ₂ e)	0
Total Offsets (tCO ₂ e)	0
Grand Total Offsets for the 2017 Reporting Year:	

Grand Total Offsets (tCO ₂ e)	1,007
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Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, SD 28 Quesnel (**the Organization**) is responsible for arranging for the retirement of the offsets obligation reported above for the 2017 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.

Executive sign-off:

 Signature	MAY 30, 2018 Date
BETTINA KETCHAM Name (please print)	SECRETARY - TREASURER Title

Part 1: CNAR Survey

1. General Information

Name: Bettina Ketcham

Contact Email: bettinaketcham@sd28.bc.ca

Organization Name: School District #28 (Quesnel)

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:

HVAC upgrades at our senior secondary school - pellet boiler went live and there are now 2 high-efficiency condensing boilers to replace an old cast iron low-efficiency boiler within the school.

New boiler installed at one of our elementary schools, again replacing it from an old inefficient boiler to a high-efficiency boiler.

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

- Replace old boilers in all school sites to high-efficiency boilers.
- Continue to educate students and staff regarding energy use and to shut lights off when classrooms are not in use.
- Purchase buses and maintenance fleet vehicles that are newer and thus emit fewer emissions
- Replace old windows to newer energy efficient windows to mitigate electricity and furnace fuel usage.
- Downsizing of our oldest school which is too large for the student population and not energy efficient

b) Over the following 6-10 years

- Build a brand new middle school which will have systems that are highly energy efficient (Ministry approval pending)
- Continue to replace old boilers with new higher-efficiency boilers

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)

Replaced existing vehicles with more fuel efficient vehicles (gas/diesel)

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

How many vehicles?: 3

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 have developed a policy to rotate out maintenance fleet vehicles. We have a fleet of 12 vehicles for maintenance and we plan on replacing one per year so that none of our vehicles are excessively old and get to a point where they are producing a significant amount of emissions
- Continue to purchase new school buses which are more efficient as they age or kilometer out
- continually evaluate bus route to ensure their efficiency

b) Over the following 6-10 years

- See above.

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

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 are constantly making the district office, school and other sites aware of their paper usage. We are encouraging double-sided printing or to re-use materials. We are also allocating budgets for printing and paper and get explanations when budgets run over which also help to control paper usage. Similarly, as education continues to move towards additional reliance on technology, using the technology to reduce printed copies is also something we are seeing as we can viewing material on-screen

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)

None of the above

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; 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)

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