

2018 Carbon Neutral Action Report

Organization name: School District No. 69 (Qualicum)

This Carbon Neutral Action Report for the period January 1st, 2018 to December 31st, 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 plan to continue reducing emissions in 2019 and beyond.

By June 30, 2019 School District No. 69 (Qualicum)'s final CNAR will be posted to our website at www.sd69.bc.ca

Executive Summary:

The district concluded the creation of a Board wide Strategic Plan in 2019. This plan included the following items which are applicable to emission reduction:

- Under Values: "Social responsibility and environmental sustainability" and "Innovation as a means of ensuring that we respond and adapt to a changing world and new understandings".
- As a Guiding Principle: "Stewardship of the public investment in education in our community is crucial. This requires an unwavering commitment to fiscal responsibility and allocation of resources based on identified needs and strategic priorities." We see this guiding principle as including environmental stewardship as part of fiscal responsibility.

Energy conservation is part of our ongoing work. Efforts to conserve energy are included throughout our 5 year capital plan and our Annual Facility Grant projects. In 2018, the district completed the following projects which will directly reduce carbon emissions:

- The district plans to continue evaluating every bus replacement and consider whether to purchase propane over diesel buses. We also continue to review the size of buses required in order to conserve energy.
- During the summer of 2018 the District did a replacement of the boiler at Springwood Elementary.
- During summer 2018 the District constructed a Photovoltaic (PV) array placement on the roof of Oceanside Elementary. This is the third of several planned solar power initiatives that continues to help reduce our use of diesel and natural gas and take advantage of this alternate energy source.
- The district is continuing to make significant improvements to False Bay Elementary, one of our isolated sites, by finding ways to use less energy and alternate energy. We continue to work with local groups to investigate alternative energy solutions which may further reduce or eliminate the use of a diesel generator in the future.

Energy conservation continues to be a goal for the district. Our Operations and Maintenance department has completed several projects that have implemented controls for heat and lights, retrofits for lighting and replacing plumbing fixtures with low flow units. These are all part of the day to day operations as well as project based when Ministry funding permits.

Emissions and Offsets:

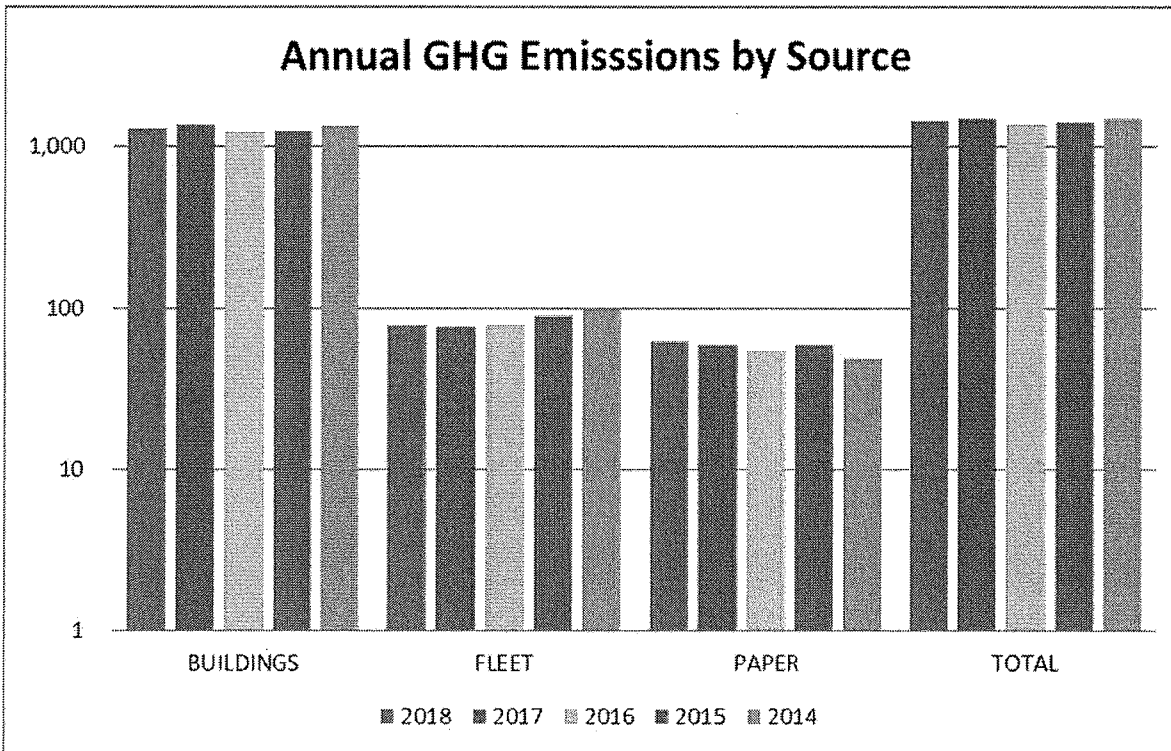
School District No. 69 (Qualicum) Emissions and Offsets (tCO₂e)

GHG Emissions created in calendar year:	2018	2017	2016	2015	2014
Total Emissions	1,945	2,000	1,850	1,876	1,953
Net change	-2.8%	8.1%	-1.4%	-3.9%	
Total Offsets for the Reporting Year	1,442	1,502	1,376	1,403	1,487
Prior Year Adjustments (tCO ₂ e)	-				
Net 2018 Offset Requirements (tCO ₂ e)	1,442				

2018 Carbon Neutral Action Report

Summary:

For 2018, School District No.69 (Qualicum) paid \$36,050 to purchase offset credits. The District maintains a bus fleet for which offsets were not purchased. As required by section 5 of the Carbon Neutral Government Regulation, 580.80 tCO₂e of emissions resulting from the operation of school buses were reported as part of our greenhouse gas emissions for 2018. However, they were not offset as they are out of scope under section 4(2)(c) of the Carbon Neutral Government Regulation.



MAY 15, 2019

Signature

Date

RON AMOS

SECRETARY TREASURER

Name (please print)

Title

Part 1: CNAR Survey

1. General Information

Name: Ron Amos

Contact Email: ramos@sd69.bc.ca

Organization Name: School District No. 69 (Qualicum)

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: No

Superintendent: No

Other - Please Specify: Secretary Treasurer (COO)

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?: reduce emissions through updating boilers and move to solar

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)

Regular updating of boilers at our older sites and construction of solar PV arrays on sites

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

We conduct informal internal audits with our staff and managers as they look to better ways to reduce

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.

We are dependent on the ministry for capital funds for major retrofits but we continue to review needs and develop budgets to fund locally also.

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.) (%): 20

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.) (%): 5

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

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.

We have not had new buildings constructed in 10+ years

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?

Look at propane fueled buses where viable

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)

Continue to monitor alternate sources

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: 100

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

We continue to review School bus run on propane but its still cost prohibitive

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)

Natural gas/propane: 10

Gas/diesel: 90

b) Light duty trucks (LDTs)

Gas/diesel: 100

c) Heavy duty vehicles (HDV)

Gas/diesel: 100

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

How much do you budget per LDV?: 25

How many LDVs do you plan to procure annually over the next 5 years?: 3

How much do you budget per LDT?: 15

How many LDTs do you plan to replace annually over the next 5 years?: 2

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?

reduce paper consumption overall

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)

Reduce consumption and move to more recycled content. Update and reduce printer/copier fleet and including print management software.

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

Reduce consumption and move to more recycled content

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

Yes

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

No

e) Other actions, please specify.

print management software