2018 CARBON NEUTRAL ACTION REPORT

Organization name: School District 22

Declaration statement: 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 plans to continue reducing emissions in 2019 and beyond.

Overview:

Our District actively promotes anti-idling, recycling, composting and waste-reduction programs at our schools and sites. We continue to retrofit our fleet and buildings with Green technology as available including the use of: light sensors, automatic timers, Co2 sensors and energy management systems. We routinely incorporate green decision making into purchasing and buy energy star rated appliances and recycled paper and other products where feasible. We promote carpooling among staff and provide Pro-D and on the job training that incorporates energy conservation such as the Smart Driver Training Program.

Energy efficiency is a strong consideration for new construction and renovations, including the use of geo-thermal heating and LED lighting.

Our District is actively participating in a pilot energy management program, and shares the services of a specialized energy manager with other school districts.
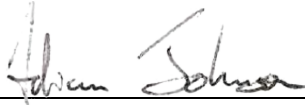
Emissions and Offset Summary Table:

School District 22 (Vernon) GHG Emissions and Offset for 2018 (tCO$_2$e)	
GHG Emissions created in Calendar Year 2018:	
Total Emissions (tCO$_2$e)	*2,550*
Total Offsets (tCO$_2$e)	*1,826*
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 2018 Reporting Year	
Grand Total Offsets (tCO$_2$e)	1,826

Retirement of Offsets:
In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, School District 22 (Vernon) (**the Organization)** 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 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, 2019
Signature	Date
Adrian Johnson	Assistant Secretary-Treasurer
Name (please print)	Title

Part 1: CNAR Survey

1. General Information

Name: Adrian Johnson

Contact Email: ajohnson@sd22.bc.ca

Organization Name: School District 22 (Vernon)

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: Yes

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?: Reducing emissions and energy consumption

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)

Geothermal, LED lighting, high efficiency boiler plants, DDC management

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

Geothermal, LED lighting, high efficiency boiler plants, DDC management

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

Part of Ministry's Centre of Energy Management Expertise, part of energy management pilot advisory group

I. What % on average of your building portfolio has an energy audit completed each year (if any)?: 25

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

LED lighting, high efficiency boilers, upgrading DDC

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.) (%): 5

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

n/a

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.

As appliances and HVAC systems are replaced, use most current refrigerants

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?: 1

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

No funding

h) Other actions? Please describe briefly.

5% of portfolio a year to LED lighting

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?

Anit-idling, replace old vehicles with fuel efficient models

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)

Llimiting trips to schools, reducing distances between split shift custodians

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

Alternate energy 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: 2

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

Service vehicles - alternate fuel vehicles not available

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: 4

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: 65

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: 2

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

How much do you budget per LDV?: 30000

How many LDVs do you plan to procure annually over the next 5 years?: 2
How much do you budget per LDT?: 30000
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?

Provide information to staff administrators on copier / printer consumption to help them identify areas of excessive consumption
Charge departments and schools based on usage volumes to encourage less usage

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)

Rolling out 'papercut' software to all departments and schools

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

Yes

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

No