

2017 CARBON NEUTRAL ACTION REPORT



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Executive Summary

On behalf of the Board of Education No. 61 (Greater Victoria) I am pleased to submit our Carbon Neutral Action Plan for 2017. Our 2017 report clearly demonstrates our District's ongoing commitment to the reduction of our greenhouse gas emissions. Our Board, as in previous years, continues to work diligently, to improve the learning environment for students and staff through it's demonstrated support and leadership in the reduction of our carbon footprint.

The integration of environmentally sustainable considerations continues to influence all of our business decisions supported by our Board approved Environmental Change Policy.

Recognizing the importance of reducing our carbon footprint, a focus on energy savings and greenhouse gas emission reductions continue to be a priority in our ongoing commitment towards carbon neutrality. Projects that include the installation of high efficiency condensing boilers, heating control upgrades, installation of energy efficient windows, and fleet upgrades remain the focus of our Facilities Department. We continue to demonstrate to students, staff and community the importance of environmental sustainability fully supported by our Board of Trustees' ongoing commitment towards carbon neutrality.

As part of our 2017 energy savings program we have replaced more of our older inefficient heating systems, installed new heating controls, replaced windows to ensure energy efficiency and have replaced a good portion of our aging fleet.

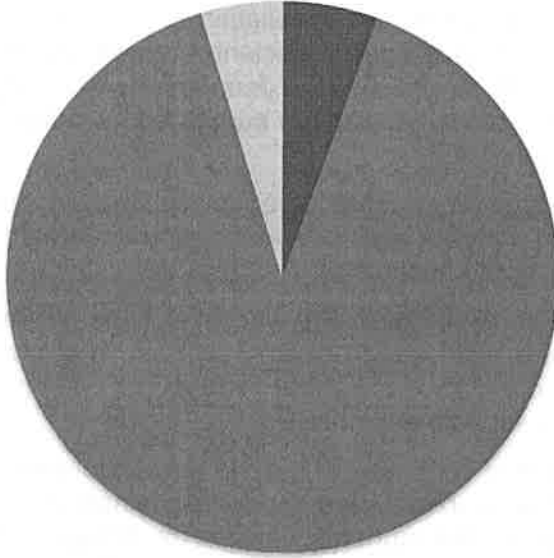
In the coming year, we plan to continue these very successful energy savings initiatives and have started the implementation of a district wide energy awareness strategy. These initiatives will allow us to move forward in our efforts to further reduce our carbon footprint while providing opportunities to modernize our schools and fleet.

As reported previously, our District continues to receive tremendous support from students, staff and parents for initiatives that embrace and model sustainability, social responsibility and reductions to our carbon footprint. The students' passion for change and enthusiasm in reducing our impact on the environment is an inspiration to us all. We are extremely proud of our achievements to date and look forward to continued success in this area.

For the 2017 reporting period the total offsets are 5,290 tons. With an adjustment of 16 tons, for a net offset of 5,306. The total investment for these offsets is \$132,250. This is up from the previous year, but weather does play a factor in this increase.

The Board of Education No. 61 (Greater Victoria) clearly recognizes its role as a leader in environmental stewardship and will continue to support initiatives that will reduce energy consumption and reduce our impact on the environment.

**School District 61 - Greater Victoria
Greenhouse Gas Emissions by Source
for the 2017 Calendar Year (tCO₂e*)**



- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)

Total Emissions: 5,306

Offsets Applied to Become Carbon Neutral in 2017

Total offsets required: **5,290**. Total offset investment: **\$132,250**. Emissions which do not require offsets: **16** **

*Tonnes of carbon dioxide equivalent (tCO₂e) is a standard unit of measure in which all types of greenhouse gases are expressed based on their global warming potential relative to carbon dioxide.

** Under the *Carbon Neutral Government Regulation of the Greenhouse Gas Reduction Targets Act*, all emissions from the sources listed above must be reported. As outlined in the regulation, some emissions do not require offsets.

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 the Greater Victoria's School District's final *Carbon Neutral Action Report* will be posted to our website at <https://healthyschools.sd61.bc.ca>

Offsets Applied to Become Carbon Neutral in 2017

Greater Victoria School District #61 offsets applied to become Carbon Neutral in 2017

Total Emissions: 5306 tonnes

Total Offsets: 5290 tons

Total Adjustments: 16

Total emissions that require an offset investment: **\$132,250 for 2017**

***Under the Carbon Neutral Government Regulation of the Greenhouse Gas Reduction Targets Act, all emissions from the sources listed above must be reported. As outlined in the regulation, some emissions do not require offsets.*

Changes to Greenhouse Gas Emissions and Offsets Reporting from Previous Years

Year	Totals	Emissions	Offsets Purchased
2010	6082	6096	\$152,050
2011	6950	6974	\$173,750
2012	6362 + 22	6387	\$159,050
2013	5545 - 172	5373	\$134,325
2014	5041-20	5021	\$125,525
2015	4823-19	4804	\$120,100
2016	4,449+228	4,677	\$116,925
2017	5290+16	5,306	\$132,250

Emissions Reduction Activities

Actions Taken to Reduce Greenhouse Gas Emissions in 2017

- Boiler replacement at Sir James Douglas Elementary, replaced with new condensing boiler.
- New DDC Building Controls Upgrade at Sir James Douglas Elementary.
- Boiler replacement at Macaulay Elementary, replaced with new condensing boiler.
- New DDC Building Controls Upgrade at Macaulay Elementary.
- Boiler replacement at Glanford Middle School, replaced with new condensing boiler.
- Full window replacement at Frank Hobbs Elementary.
- Replacement of twenty four of our fleet vehicles, and the disposal of four vehicles from our fleet.

Plans to Continue Reducing Greenhouse Gas Emissions

In 2018 we will work towards reducing our energy consumption and greenhouse gas emissions by focusing on upgrading and replacing the aging heating systems and controls, replacing aging windows, upgrading more of our aging fleet and implementing an energy awareness strategy across the school district.

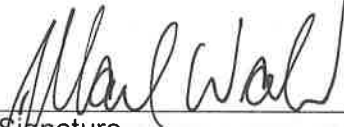
As a public sector organization our ability to continue to reduce greenhouse gas emissions is dependent on government funding. Our Board remains committed to support energy saving initiatives through Ministry of Education funding received for major capital improvements and the Ministry of Education's Annual Facilities Grant (AFG) and the newly introduced Carbon Neutral Capital Plan (CNCP).

- The Greater Victoria School District No. 61 has a link for Green Initiatives on the School District Website: <https://healthyschools.sd61.bc.ca>

Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, the Greater Victoria School District 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 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 _____ Date April 19, 2018
Mark Walsh Secretary-Treasurer/COO
Name (please print), CEO, COO of _____ Title _____
Superintendent

Part 1: CNAR Survey

1. General Information

Name: Marni Vistisen-Harwood

Contact Email: mvistisen@sd61.bc.ca

Organization Name: Greater Victoria School District 61

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?: 3

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:

- Boiler replacement at Sir James Douglas Elementary, replaced with new condensing boiler.
- New DDC Building Controls Upgrade at Sir James Douglas Elementary.
- Boiler replacement at Macaulay Elementary, replaced with new condensing boiler.
- New DDC Building Controls Upgrade at Macaulay Elementary.
- Boiler replacement at Glanford Middle School, replaced with new condensing boiler.
- Full window replacement at Frank Hobbs Elementary.

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

The Greater Victoria School District will continue to complete energy efficient retrofits including but not inclusive of boiler upgrades, roof and window replacements, DDC upgrades, and building envelope upgrades and will further decrease our emissions by implementing an energy awareness strategy across the school district.

b) Over the following 6-10 years

The Greater Victoria School District will continue to complete energy efficient retrofits including but not inclusive of boiler upgrades, roof and window replacements, DDC upgrades, and building envelope upgrades and will further decrease our emissions by implementing an energy awareness strategy across the school district.

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?: 22

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

The Greater Victoria School District will continue to replace our aging fleet to ensure a reduction in our GHG emissions and continue to watch our fleet fuel consumption.

b) Over the following 6-10 years

The Greater Victoria School District will continue to replace our aging fleet to ensure a reduction in our GHG emissions and will continue to service our vehicles to ensure that they are safe and working efficiently.

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 a policy requiring the purchase of alternate source paper (bamboo, hemp, wheat, etc)

4) Supplies (Paper): Indicate which actions your PSO took in 2017: - Other? Please describe briefly: Implemented a test pilot project in a number locations around the consumption and purchasing of paper supplies.

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.

The school district will be implementing an strategy across the school district that will target paper reduction. Currently we encourage the purchase of hemp paper products. The Greater Victoria School District recently implemented a paperless work order system that will decrease our paper consumption in the future years.

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; Support for professional development on sustainability (e.g. workshops, conferences, training)

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)

None of the above