

# 2016 CARBON NEUTRAL ACTION REPORT



# Table of Contents

**Executive Summary**  
..... **Pg. 3**

**Declaration Statement**  
..... **Pg. 4**

**Greenhouse Gas Emissions**  
..... **Pg. 5**

**Offsets Applied to Become Carbon Neutral**  
..... **Pg. 6**

**Changes to Greenhouse Gas Emissions and Offsets**  
..... **Pg. 6**

**Emissions Reduction Activities**  
..... **Pg. 7**

**Retirement of Offsets**  
..... **Pg. 8**

# Executive Summary

On behalf of the Board of Education No. 61 (Greater Victoria) I am pleased to submit our Carbon Neutral Action Plan for 2016. Our 2016 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, fleet upgrades and ongoing waste reduction initiatives 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 2016 energy savings program we have replaced more of our older inefficient heating systems, installed new heating controls and are in the planning stages to replace our aging fleet.

In the coming year, we plan to continue these very successful energy savings initiatives and start the implementation of an energy awareness campaign. 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 2016 reporting period the total offsets are 4,449 tons. With an adjustment of 228 tons, for a net offset of 4,677. The total investment for these offsets is \$116,925.

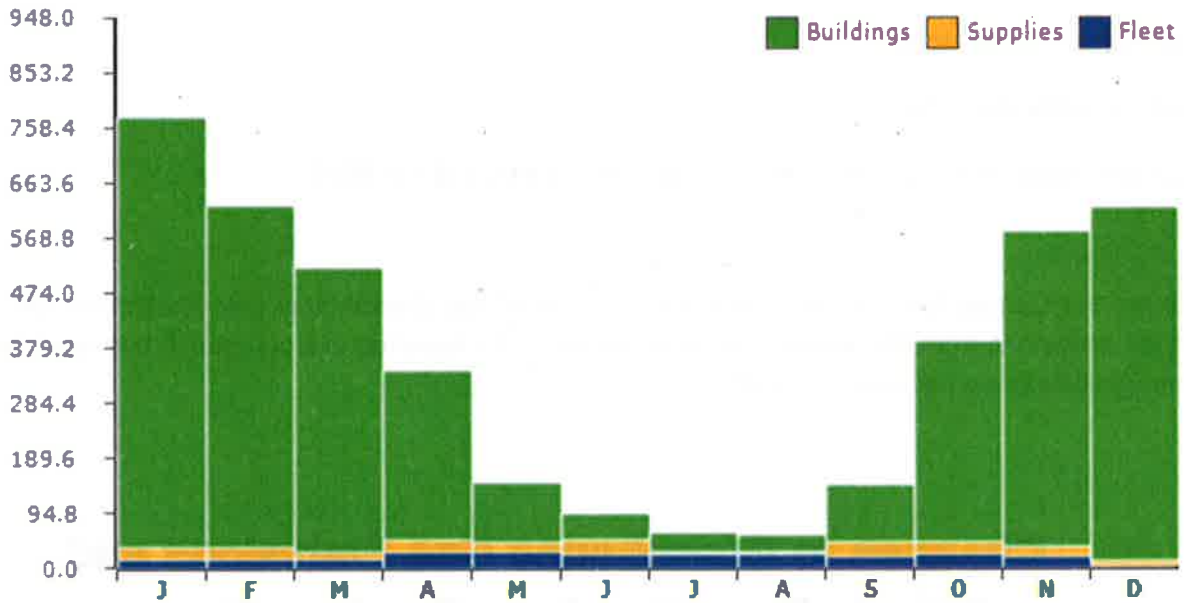
The Board of Education No. 61 (Greater Victoria) clearly recognizes its role as a leader in environmental stewardship and will continue to support initiatives that will reduce energy consumption and reduce our impact on the environment.

**Declaration statement:** This Carbon Neutral Action Report for the period January 1<sup>st</sup>, 2016 to December 31<sup>st</sup>, 2016 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2016 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2017 and beyond.

By June 30, 2017 the Greater Victoria's School District's final *Carbon Neutral Action Report* will be posted to our website at <https://healthyschools.sd61.bc.ca>

# Greater Victoria School District 61 Greenhouse Gas Emissions by Source for the 2016 Calendar Year

Metric tonnes  
CO2 equivalent (tCO2e)



**Total Emissions: 4,467**

**Offsets Applied to Become Carbon Neutral in 2016**

Total Emissions that require offset purchase: 4,677

Total offsets: 4,449 Total offset investment: \$116,925.

Total Adjustments: 228

\*Tonnes of carbon dioxide equivalent (tCO<sub>2e</sub>) 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.

## Offsets Applied to Become Carbon Neutral in 2016

**Greater Victoria School District #61 offsets applied to become Carbon Neutral in 2016**

Total Emissions: 4,467 tonnes

Total Offsets: 4,449 tons

Total Adjustments: 228

Total emissions that require an offset investment: **\$116,925 for 2016**

*\*\*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

# Emissions Reduction Activities

## Actions Taken to Reduce Greenhouse Gas Emissions in 2016

- Boiler replacement at Facilities Maintenance Building (Removal of 1956 boiler and installation of new condensing boilers with DDC controls)
- Boiler replacement and Ventilation upgrades at Monterey Middle School (Removal of 1970 boiler and installation of new condensing boilers with DDC controls, replacement of all classroom unit ventilations with new energy-efficient units)
- Window replacements at Doncaster Elementary (removal of original single-pane windows from the 1945/63/64 wings, installation of new energy-efficient double pane windows)
- Window replacements at Rockheights Middle School (removal of original single-pane windows from the 1966 wing, installation of new energy-efficient double pane windows)

## Plans to Continue Reducing Greenhouse Gas Emissions

In 2017 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 our aging fleet and implementing an energy awareness campaign 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:**

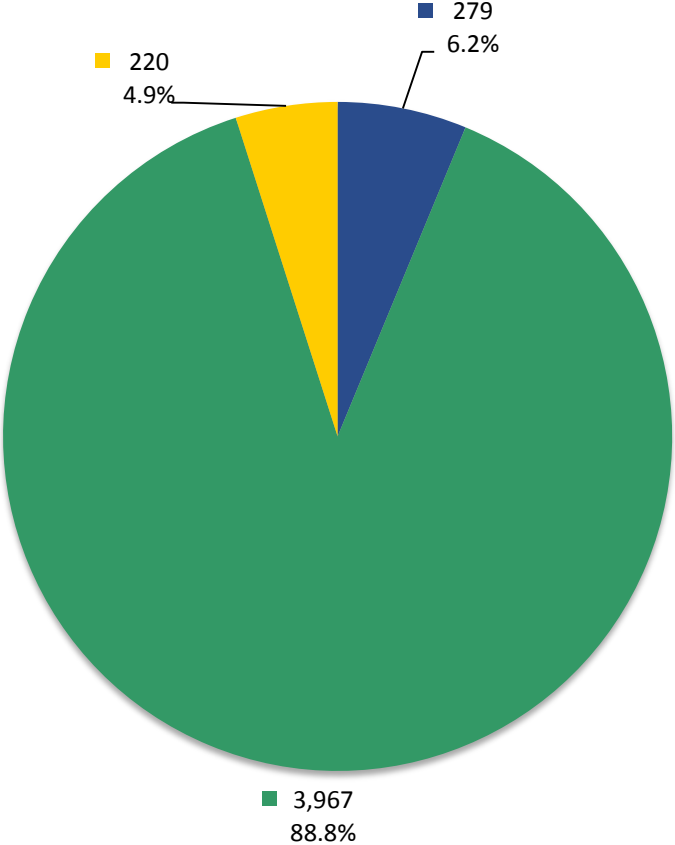
In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, the Greater Victoria School District is responsible for arranging for the retirement of the offsets obligation reported above for the 2016 calendar year, together with any adjustments 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:**

	MAY 23, 2017
Signature	Date
PIET LANGSTRAAT	SUPERINTENDENT
Name (please print), CEO, COO or Superintendent	Title



**School District 61 - Greater Victoria  
Greenhouse Gas Emissions by Source  
for the 2016 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 4,467**

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

**Offsets Applied to Become Carbon Neutral in 2016 (Generated May 15, 2017 3:57 PM)**

Total offsets required: **4,449**. Total offset investment: **\$111,225**. Emissions which do not require offsets: **18** \*\*

\*Tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) 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.

# 2016 Carbon Neutral Action Report Survey

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Part One (external)

Contact Name(s):

*Marni Vistisen-Harwood*

Organization Name:

*The Board of Education No. 61 (Greater Victoria)*

Please select your sector:

- School District

1) Stationary Sources (Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

During 2016, did your organization take any of the following actions to support emissions reductions from buildings?

Select all that apply

- Performed energy retrofits of the organization's buildings.: Upgrade to energy efficient boilers and replacement of older windows to energy efficient models.

Briefly describe your organization's plans to continue reducing emissions from its stationary sources in future years.

*SD 61 will continue to complete energy efficient retrofits including but not inclusive of, boiler upgrades, window and door replacements, DDC upgrades, and building envelop upgrades. All upgrades will contribute to reducing the school district's emissions.*

During 2016, did your organization participate in utility-sponsored energy demand management program(s) (e.g. BC Hydro's Energy Management (Manager))?

*No*

If yes, please describe briefly:

*N/A*

2) Mobile Sources (Vehicles, Off-road/Portable Equipment): Fuel Combustion.

During 2016, did your organization take any of the following actions to support emission reductions from its mobile sources?

## Select all that apply

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- Other actions? Please describe briefly.: Draft vehicle procurement action plan
- 

Briefly describe your organization's plans to continue reducing emissions from its mobile sources in future years.

*SD 61 has a future plan to replace the current fleet with newer, fuel efficient vehicles. This replacement strategy is intended to decrease the fleet emissions. The SD is also implementing a new work order system that will decrease our paper consumption and has a program built in to allow for less travel time for employees, thus reducing our emissions.*

3) Supplies (Paper):

During 2016, did your organization take any of the following actions to support emissions reductions from paper supplies?

Select all that apply

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- Other actions? Please describe briefly.: We encourage the schools in our district to purchase recycled paper and have sent a memo out to all schools indicating the benefits of purchasing Hemp products.
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Briefly describe your organization's plans to continue reducing emissions associated with its office paper use in future years.

*We are currently in the process of upgrading our copiers and transferring many of our process to paperless. For example our work order system that uses a enormous amount of paper will be transferred to a mobile paperless system.*

4) Other Sustainability Actions:

Business Travel:

During 2016, did your organization take any of the following actions to support emissions reductions from business travel?

Select all that apply

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- Encouraged alternative travel for business (e.g. bicycles, public transit, walking)
- Other, please describe briefly: We are working with HASTe (Hub for Active School Travel) for our students and Staff to encourage more biking / walking to schools.

Education Awareness:

During 2016, did your organization have any of the following programs or initiatives to support sustainability education and awareness?

Select all that apply

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- Other, please describe briefly: No, we had a transition period so no awareness initiatives were completed.

Other Sustainability Actions:

During 2016, did your organization have any of the following programs or initiatives to support sustainability?

Select all that apply

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- Other, please describe briefly: No, we had a transition period so no awareness initiatives were completed.