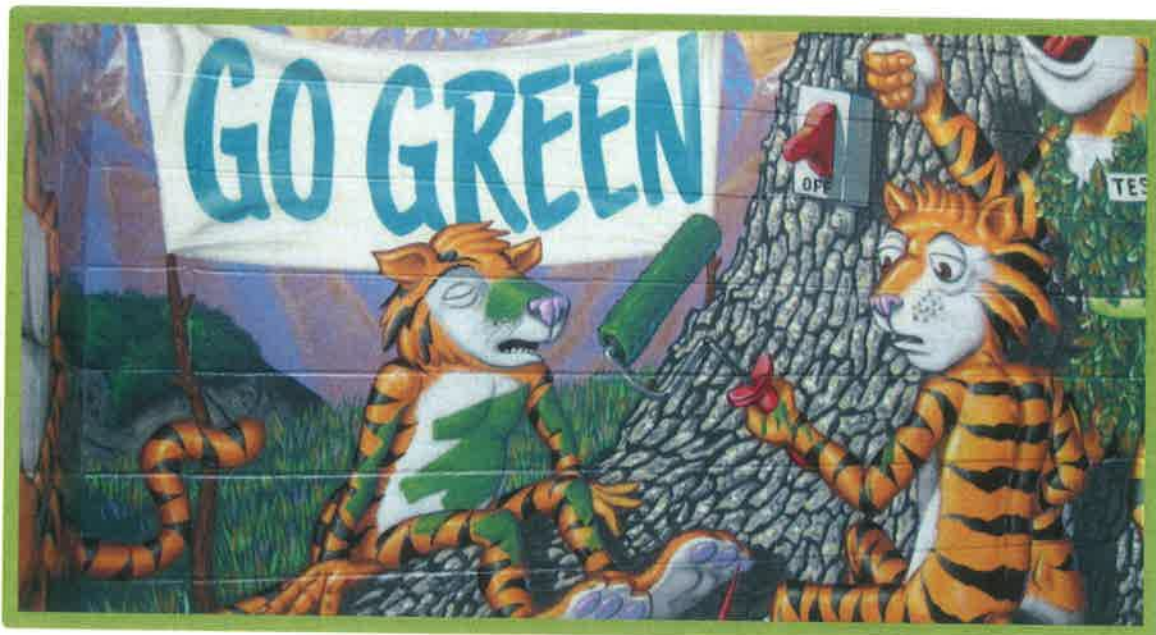


# CARBON NEUTRAL ACTION REPORT



**We care about ourselves, each other  
and  
this place**



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# Executive Summary

On behalf of the Board of Education No. 61 (Greater Victoria) I am again pleased to submit our Carbon Neutral Action Plan for 2014. Our 2014 report again 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 its 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, window replacement projects 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.

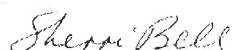
As part of our 2014 energy savings program we have replaced more of our older inefficient heating systems, installed new heating controls and completed window replacement projects at four more of our schools.

In the coming year, we plan to continue these very successful energy savings initiatives and have been successful in obtaining funding for a major boiler replacement and heating controls upgrade at one of our middle schools under the Ministry's Carbon Neutral Capital Plan. We as a district are extremely pleased and proud that work will be completed this summer on our new LEED Gold high school replacement project which will open its doors to students and the community in September. These projects will allow us to move forward in our efforts to further reduce our carbon footprint while also providing opportunities to modernize our schools.

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. We now have 100% of our schools participating in a full recycling program. 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 2014 reporting period the total emissions are 5,041 tons. With an adjustment of 20 tons emissions, which do not require offsets, for a net 2014 offset of 5,021. The total investment for these offsets is \$125,525. Through a combination of favorable weather conditions and these on-going initiatives we are pleased to report that our greenhouse gas emissions have been reduced by approximately 9% over last year's totals.

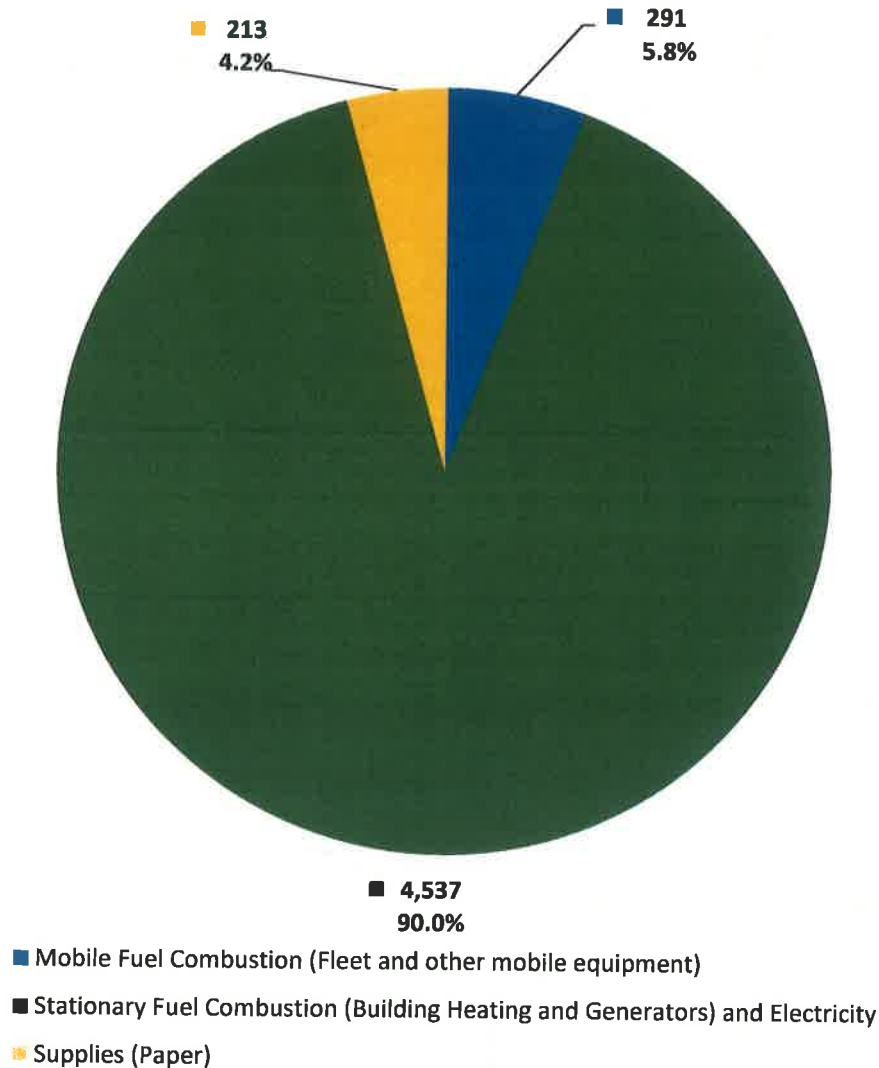
The Board of Education No. 61 (Greater Victoria) clearly recognizes its role as a leader in environmental stewardship and will continue to support initiatives that will reduce energy consumption and reduce our impact on the environment.



Sherri Bell  
Superintendent

# Greenhouse Gas Emissions

## School District 61 - Greater Victoria Greenhouse Gas Emissions by Source for the 2014 Calendar Year (tCO<sub>2</sub>e\*)



**Total Emissions: 5,041**

**Offsets Applied to Become Carbon Neutral in 2014**

Total offsets required: 5,021. Total offset investment: \$125,525

Emissions which do not require offsets: 20\*\*

\*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.

# Offsets Applied to Become Carbon Neutral in 2014

Greater Victoria School District #61 offsets applied to become Carbon Neutral in 2014

Total offsets required: **5,021**

Total offset investment: **\$125,525 for 2014**

Emissions which do not required offsets: **20**

*\*\*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

# Emissions Reduction Activities

## Actions Taken to Reduce Greenhouse Gas Emissions in 2014

- ❖ Installation of new high efficiency boilers at Gordon Head, Hillcrest and George Jay Elementary Schools.
- ❖ Installation of new Direct Digital Control Systems at Gordon Head, Hillcrest and George Jay Elementary Schools.
- ❖ Installation of 105 new Energy Star windows at Victor Assessment Centre.
- ❖ Installation of 32 new Energy Star windows at Braefoot Elementary School.
- ❖ Installation of 43 new Energy Star windows at Hillcrest Elementary School.
- ❖ Installation of 59 new Energy Star windows at McKenzie Elementary School.
- ❖ Installation of 65 new Energy Star windows (phase 1) at Esquimalt Secondary School.
- ❖ Ongoing in-servicing of District staff in the operation and maintenance of these new heating systems.
- ❖ Continued support for behavioural change initiatives for students and staff.
- ❖ Participation in District waste reduction program has increased and now is 100% of all schools participating in the program.

## Plans to Continue Reducing Greenhouse Gas Emissions

We continue to enjoy success in reducing energy consumption and greenhouse gas emissions through a focus on upgrading and replacement of aging heating systems and controls, window replacement and student and staff education and plan to focus on these initiatives again in 2015.

As a public sector organization our ability to continue to reduce greenhouse gas emissions is dependent of government funding. Our Board remains committed to support energy saving initiatives through Ministry of Education funding received for major capital improvements (5 Year Capital Plan) 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: <http://www.sd61.bc.ca/green/default.aspx>

# 2014 Carbon Neutral Action Report (CNAR) - Part 2 ACTIONS

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## Organization Name

Board of Education No. 61 Greater Victoria

## Actions Taken to Reduce Emissions

### 1) Stationary Fuel Combustion, Electricity (Buildings): Indicate which actions were taken in 2014:

Performed energy retrofits on existing buildings

No

Built or are building new LEED Gold or other "Green" buildings.

Yes

Undertook an evaluation of overall building energy use.

No

Please list any other actions taken to reduce emissions from Buildings:

Replacement of older inefficient boiler with new energy efficient boilers including new heating controls (DDC)

### 2) Mobile Fleet Combustion (Fleet and other vehicles): Indicate which actions were taken in 2014:

Do you have a fleet?

Yes

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

No

Replaced existing vehicles with hybrid or electric vehicles

No

Reduced the overall number of fleet vehicles

No

Took steps to drive less than last year

Yes

Please list any other actions taken to reduce emission from fleet:

Purchased a GPS monitoring system to assist in monitoring of idling, fuel consumption and maintenance of vehicles.

**3) Supplies (Paper):Indicate which actions were taken in 2014:**

Used less paper than previous year

No

Used only 100% recycled paper

No

Used some recycled paper

Yes



Used alternate source paper (Bamboo, hemp, etc.)

No

Please list any other actions taken to reduce emissions from paper use:

(No response)

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### **Actions Taken to Reduce Emissions - continued**

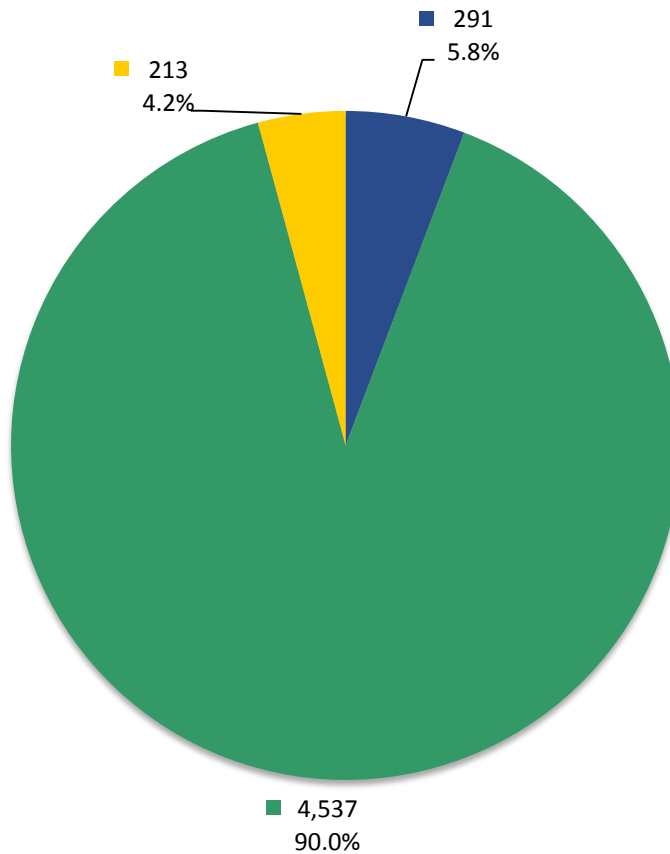
Explain how you plan to continue minimizing emissions in 2015 and future years:

Continue to focus of the replacement, upgrading of heating systems and installation of new energy efficient windows.

If you wish to list any other "sustainability actions" outside of buildings, fleet, paper and travel check "yes". This reporting is optional.

No

## School District 61 - Greater Victoria Greenhouse Gas Emissions by Source for the 2014 Calendar Year (tCO<sub>2</sub>e\*)



**Total Emissions: 5,041**

- 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 2014 (Generated June 23, 2015 3:07 PM)

Total offsets required: **5,021**. Total offset investment: **\$125,525**. Emissions which do not require offsets: **20** \*\*

\*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.

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