

# **2015 Carbon Neutral Action Report**

## **School District 68 (Nanaimo-Ladysmith Public Schools)**

### **Declaration Statement**

This Carbon Neutral Action Report for the period January 1<sup>st</sup>, 2015 to December 31<sup>st</sup>, 2015 summarizes our emissions profile, the total offsets to reach net zero emissions, the actions we have taken in 2015 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2016 and beyond.

By June 30, 2016, School District 68 (Nanaimo-Ladysmith Public Schools) final Carbon Neutral Action Report will be posted to our website at [www.sd68.bc.ca](http://www.sd68.bc.ca).

### **Overview**

In 2015, School District 68 (Nanaimo-Ladysmith Public Schools) continued with its strategic plan to reduce energy consumption and its carbon foot print. Through incentives and strong partnerships with BC Hydro and Fortis BC, the District was able to continue another busy year replacing outdoor lighting with LED technology, implementing interior occupancy sensors and upgrading aging inefficient boilers with new high efficiency condensing units. One of the boiler plants was at Dover Bay Secondary where all five major heating coils were also replaced to maximize the new boilers condensing technology. The second site included condensing boilers for the new blocks of Wellington Secondary which has been under Seismic Upgrade since 2013.

In 2016 we will be continue our efforts in upgrading outdoor lighting with LED technology, implementing occupancy sensors and upgrading boilers. These programs are ongoing and will continue as new feasible opportunities are discovered. We will also report on our efforts in implementing an *Energy Cup Challenge* where we encourage Schools to take on energy conservation initiatives (ie. sweater days, lights out lunches, etc), bringing awareness to energy reduction and sustainability.

### Emissions and Offsets Summary Table:

<b>School District 68 (Nanaimo-Ladysmith Public Schools)</b>	
<b>GHG Emissions and Offsets for 2015 (TCO2E)</b>	
<b>GHG Emissions created in Calendar Year 2015</b>	
Total Emissions (TCO2E)	3,880
Total Offsets (TCO2E)	3,033
<b>Adjustments to GHG Emissions Reported in Prior Years</b>	
Total Emissions (TCO2E)	272
Total Offsets (TCO2E)	271
<b>Grand Total Offsets for the 2015 Reporting Year</b>	
Grand Total Offsets (TCO2E)	3,304

### Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, School District 68 (Nanaimo-Ladysmith Public Schools) **(the Organization)** is responsible for arranging for the retirement of the offsets obligation reported above for the 2015 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 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:

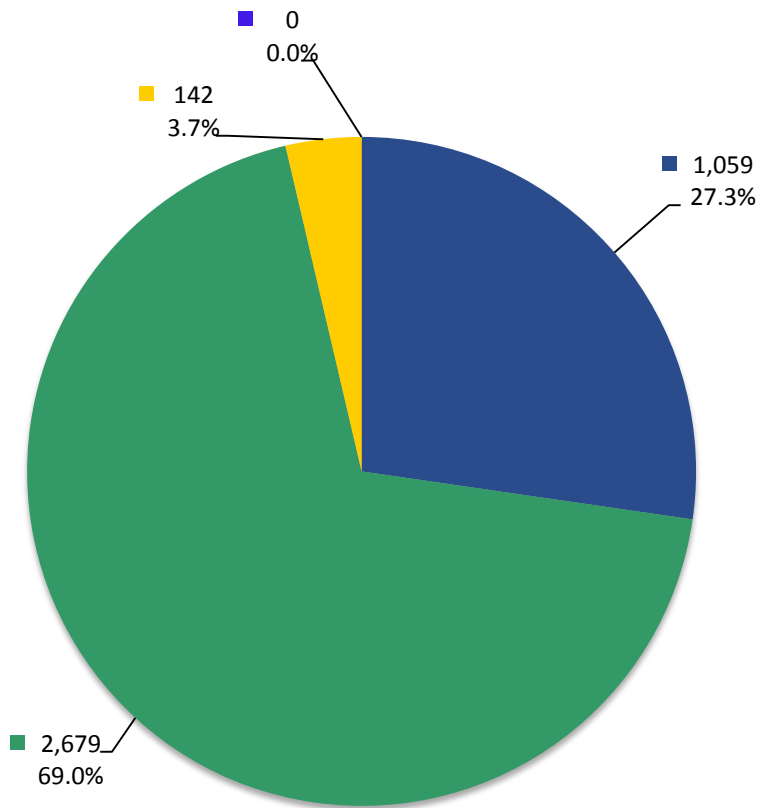
  
Signature

JOHN BLAIN  
Name (please print)

MAY 30, 2016  
Date

SUPERINTENDENT / CEO  
Title

# **School District 68 - Nanaimo-Ladysmith Greenhouse Gas Emissions by Source for the 2015 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 3,880**

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

## **Offsets Applied to Become Carbon Neutral in 2015 (Generated May 25, 2016 10:18 AM)**

Total offsets required: **3,033**. Total offset investment: **\$75,825**. Emissions which do not require offsets: **847** \*\*

\*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.

# 2015 Carbon Neutral Action Report Survey

Organization Name:

*School District 68 - (Nanaimo-Ladysmith Public Schools)*

Please select your sector:

- School District

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

Please indicate which actions your PSO took in 2015:

Have developed an overall strategy/plan to reduce energy use in your organization's buildings inventory:

*Yes*

If Yes, please describe:

*Our District continually monitors our energy consumption to detect any system anomalies and remedy accordingly. We also have ongoing programs to implement interior/exterior lighting upgrades, boiler plant upgrades and re-program the boiler plants for efficiency, all to lower energy consumption and green house gases.*

Undertook evaluations of building energy use:

*Yes*

Performed energy retrofits on existing buildings:

*Yes*

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

*No*

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from buildings:

*(No response)*

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

Indicate which actions your PSO took in 2015:

Have put in place an operations policy/program to support systematic reductions in fleet related emissions:

(e.g., program to convert fleet to renewable fuels)

No

If Yes, please describe:

(No response)

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

Yes

Replaced existing vehicles with hybrid or electric vehicles:

No

Took steps to drive less than previous years:

Yes

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from fleet combustion:

(No response)

3) Supplies (Paper):

Indicate which actions your PSO took in 2015:

Have put in place an operations policy/program to facilitate a systematic reduction in paper-related emissions:

(e.g., policy to purchase 100% Recycled Content; default to double-sided printing)

No

If yes, please describe:

(No response)

Have put in place an operations policy/program to facilitate behavioural changes from paper use:

(e.g. awareness campaign to reduce paper use):

No

If yes, please describe:

(No response)

Used only 100% recycled paper:

No

Used some recycled paper:

Yes

Used alternate source paper:

(e.g., bamboo, hemp, wheat etc.)

No

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from paper supplies:

(No response)

#### 4) Other Sustainability Actions:

Please note that this section is optional

##### Business Travel

Created a low-carbon travel policy or travel reduction goal:

(low-carbon = lowest emission of greenhouse gas per kilometer per passenger)

*No*

Encouraged alternative travel for business:

(e.g. bicycles, public transit, walking)

*No*

Encouraged or allow telework/working from home:

*No*

Other:

*(No response)*

##### Education Awareness

Have a Green/Sustainability/Climate Action Team:

*Yes*

Supported green professional development:

(e.g. workshops, conferences, training)

*Yes*

Supported or provided education to staff about the science of climate change, conservation of water, energy and/or raw materials:

*Yes*

Other:

*(No response)*



## Adaptation Planning for Climate Risks

Have assessed whether increased frequency of extreme weather events and/or long term changes in climate will affect your organization's infrastructure, its employees and/or its clients:

No

Have incorporated these anticipated changes in climate into your organization's planning and decision making:

No

Other:

(No response)

## Other Sustainability Actions

Established a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models:

No

Have put in place an operations policy/program to facilitate the reduction and diversion of building occupant waste stream from landfills or incineration facilities:

(e.g., composting, collection of plastics, batteries)

Yes

Established green standards for goods that are replaced infrequently and/or may require capital funds to purchase:

(e.g., office furniture, carpeting, etc.)

No

Incorporated lifecycle costing into new construction or renovations:

No

Please list any other sustainability actions your organization has taken not listed above:

(No response)