



## 2016 Carbon Neutral Action Report

### School District No. 52 (Prince Rupert)

#### **Declaration statement:**

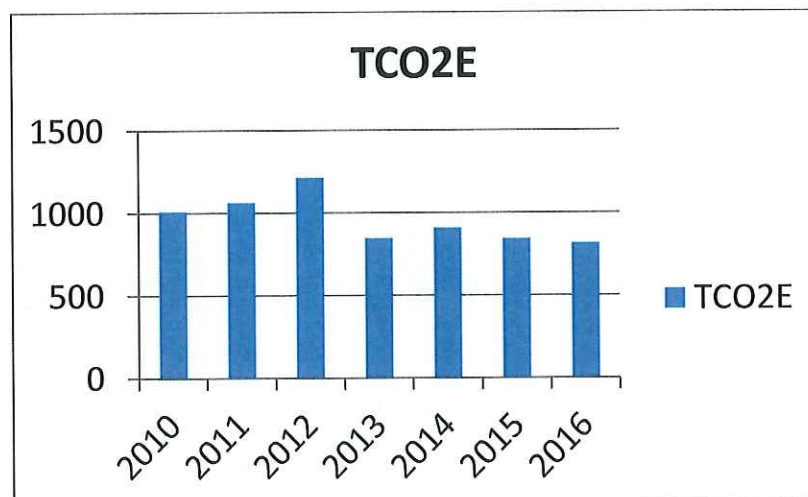
This Carbon Neutral Action Report for the period January 1<sup>st</sup>, 2016 to December 31<sup>st</sup>, 2016 summarizes the emissions profile, the total offsets to reach net-zero emissions, the actions taken in 2016 to reduce greenhouse gas emissions and plans to continue reducing emissions in 2017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

By June 30, 2017 the final *Carbon Neutral Action Report* for School District No. 52 (Prince Rupert) will be posted to the district website at [www.sd52.bc.ca](http://www.sd52.bc.ca).

#### **Executive Summary**

School District No. 52 is a district of approximately 2,000 students. In 2016 the district educated its students in five elementary schools, one middle school, one secondary school, one Aboriginal village school and one distributed learning storefront school. The district is supported by a maintenance building, an aboriginal education administration building and a board office. Five Prince Rupert trustees and one rural trustee represent the communities of School District No. 52. Of its 15 sites, 12 are owned (3 of these are currently closed with no heat maintained in 2 of the 3), 1 is band owned and 2 are leased. The average age of the owned buildings is over 40 years.

With funding being scarce and aging facilities, the District looks to carbon neutral projects that deliver savings directly or indirectly by reducing maintenance on its facilities and vehicles. In the last three years the district has completed a number of energy efficiency upgrades. The cumulative impact of these improvements is demonstrated by the decreasing tonnes of emissions from the district.



## **Overview**

### **2016 Greenhouse Gas Emissions**

#### **Offsets Applied to Become Carbon Neutral in 2015**

Offsets for 816 Tonnes of carbon dioxide equivalent were purchased, which included 85 tonnes in adjustments to the reporting for 2015. Emissions reported for district bussing which do not require offsets were 20 Tonnes of carbon dioxide.

#### **Actions Taken to Reduce Greenhouse Gas Emissions in 2016**

School District No. 52's key actions taken during 2016 toward carbon neutrality included almost a full year impact from the energy upgrades completed at the secondary school in early 2016. Energy upgrades were underway at an elementary school in 2016. School District No. 52's efforts are aimed at retrofitting aging buildings with higher efficiency equipment and consideration of replacement or closure of buildings. The district is looking to take advantage of fossil fuel reduction projects like lighting retrofits and HVAC system upgrades, including boilers – particularly where there is sharing of project funding, a reasonable payback period or straight savings to the district. Additional energy audit work was completed in 2016.

For the 2016-17 school year the district no longer contracted for bus services. Some students impacted by this change are able to ride the municipal transit system. This resulted in a reduction in greenhouse gas emissions.

Two service vehicles were replaced in 2015. The replacement vehicles are more energy efficient than the vehicles that were replaced. These replacement vehicles had their first full year of service in 2016.

#### **Plans to Continue Reducing Greenhouse Gas Emissions in 2017 – 2019**

Implementation of the energy efficiency project will be completed at an elementary school in mid 2017, so that it will be in effect for the 2017-18 winter season. Work has been approved for a DDC upgrade at another elementary school which will commence in 2017. Design work for additional energy efficiency projects has been completed. These projects will be completed as funding is made available.

## **Report**

### **Mandate**

Carbon neutrality is linked to the mandate of the district by government regulation.

### **Sustainability Goals**

The Board's Energy Conservation and Environmental Stewardship Policy notes that the Board is committed to the continuous improvement of the district's energy management performance and to building a culture of sustainability and environmental stewardship.

### **Benefits**

There are significant financial benefits to reducing carbon emissions, both in terms of reduced energy costs and reduced carbon offset payments. Education of employees and students in ways to reduce energy use will have a broader benefit to the community as a whole.

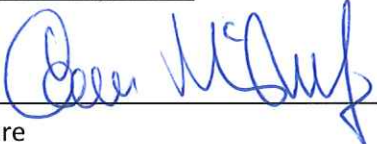
## Emissions and Offsets Summary

<b>School District No. 52 (Prince Rupert) GHG Emissions and Offsets for 2016 (TCO2E)</b>	
<b>GHG Emissions created in calendar year 2016 (from SMARTTool Homepage):</b>	
Total Emissions	751
Total Emissions for Offsets	731
<b>Adjustments to GHG Emissions Reported in Previous Years (from SMARTTool Homepage):</b>	
Total Emissions	85
Total Emissions for Offsets	85
<b>Credit owing from PCT at end of 2015 reporting year (if applicable – from May 15 Invoice):</b>	
Credit Owing	0
<b>Total Emissions for Offsets for the 2016 Reporting Year (from Offset Invoice):</b>	<b>816</b>

### **Retirement of Offsets:**

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, School District No. 52 (Prince Rupert) 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 district hereby agrees that, in exchange for the Ministry of Environment ensuring that these offsets are retired on the district behalf, the district 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:**

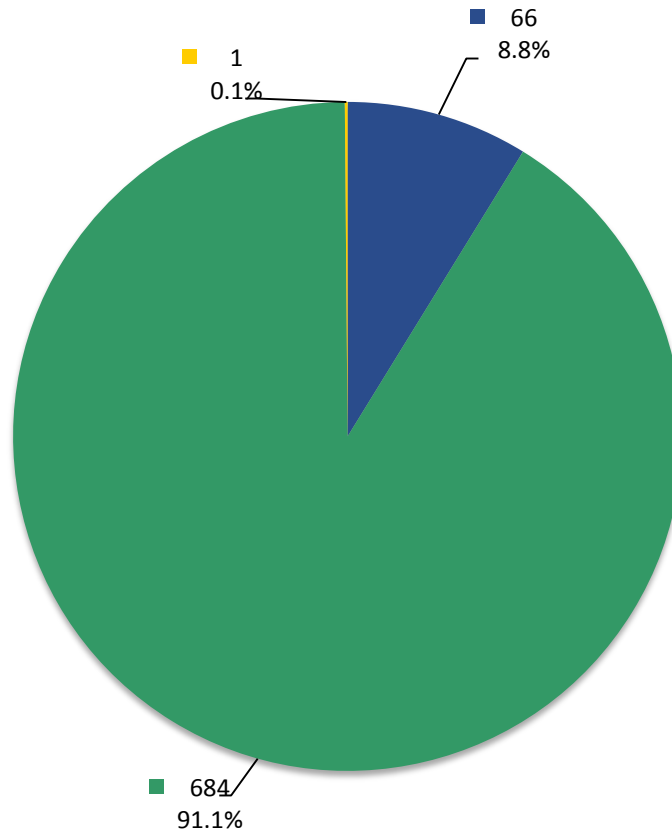
  
 \_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Cam McIntyre, CPA, CA  
 Name

\_\_\_\_\_  
 May 30, 2017  
 Date

\_\_\_\_\_  
 Secretary-Treasurer  
 Title

**School District 52 - Prince Rupert  
Greenhouse Gas Emissions by Source  
for the 2016 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 751**

- 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 4:02 PM)**

Total offsets required: **731**. Total offset investment: **\$18,275**. 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.

# 2016 Carbon Neutral Action Report Survey

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Part One (external)

Contact Name(s):

*Cam McIntyre, Secretary-Treasurer*

Organization Name:

*School District No. 52 (Prince Rupert)*

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

- Conducted an energy audit/study of building(s) in the organization's portfolio
- Performed energy retrofits of the organization's buildings.: 1
- Other actions? Please describe briefly.: Continuing to work for approval of funding to replace one school with a new LEED Gold school.

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

*Implementation of the energy efficiency project will be completed at an elementary school in mid 2017, so that it will be in effect for the 2017-18 winter season. Work has been approved for a DDC upgrade at another elementary school which will commence in 2017. Design work for additional energy efficiency projects has been completed. These projects will be completed as funding is made available.*

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:

*(No response)*



## 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

- 
- Other actions? Please describe briefly.: Two service vehicles were replaced in 2015. The replacement vehicles are more energy efficient than the vehicles that were replaced. These replacement vehicles had their first full year of service in 2016.
- 

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

*Replacement of vehicles with more fuel efficient vehicles as funding is available.*

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

- 
- Other actions? Please describe briefly.: Paper order does request recycled content in the paper.
- 

Briefly describe your organization's plans to continue reducing emissions associated with its office paper use in future years.

*The 2017-18 budget requires a 10% reduction in photocopies/printing.*



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

- 
- Other, please describe briefly: Car-pooling is encouraged.
- 

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

- 
- Other, please describe briefly: The Board of Education approved an Energy Conservation and Environmental Stewardship Policy.
- 

Other Sustainability Actions:

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

Select all that apply

- 
- Lifecycle costing of new construction or renovations
-