



## School District 50 (Haida Gwaii) Carbon Neutral Action Report - Overview 2013

This is the 2013 Carbon Neutral Action Report (CNAR) for School District 50 (Haida Gwaii). This report contains our 2013 emissions profile, offsets purchased, the actions we have taken in 2013 to reduce our GHG emissions and our plans to continue reducing emissions in 2014 and beyond.

By June 30, 2014, SD 50's final CNAR will be posted to our website at [www.sd50.bc.ca](http://www.sd50.bc.ca).

Placed in a remote, fragile and unique ecosystem, School District 50 (Haida Gwaii) is endeavouring to be a leader in sustainable practises and carbon neutrality. We see around us in severe winter storms, coastal erosion and tidal flooding the implications of climate change and want to actively engage in this problem of our era. We see that, as an institution dedicated to education, we must make sure our staff and students are full participants in the solutions we develop and actions we take. SD 50 uses almost entirely electronic documentation; as much as possible, we are reducing the numbers of meetings, conferences, and the like that require physical travel; and along with other stakeholder groups of Haida Gwaii, we are working to replace the islands' diesel oil electrical power grid with green technologies. We are hopeful that viable and sustainable formats will replace our reliance on oil over the next decade. Finally, we are looking ahead to gradual replacement and elimination of inefficient or oversized vehicles, equipment and buildings. This continues to be a challenge as a small, remote district with no staff assigned to environmental initiatives but an area we nonetheless take very seriously. Further community issues to consider include the lack of public transportation, distance between villages, and the increasing demand for electricity by all consumers. School District 50 is an active participant in all these discussions.



Significant progress has been made in converting energy systems in 2013 and beyond. One diesel oil system was completely replaced in 2012/13 with a propane system; another oil system was completely renovated. As of 2014, we are in discussion to potentially move another building to a biomass system. Meanwhile, we are pleased to report our solar panel installation, made possible through the carbon neutral fund, has reduced GHG by 4.75 tonnes in just under one year, and represents over 1% of our entire carbon production. We are currently researching and installing LED lighting at several schools to further reduce load.



We also continue to work as educators. Many of our educational initiatives involve our relationship to the land and sea, whether it is a salmonid hatchery or our second greenhouse due for completion in the next month. Our students are all involved in outdoor experiential education, our science classes work on developing alternative power sources and many are actively involved in finding other power supplies for the island, including biomass, solar, and wind. Finally, as Haida Gwaii faces

the impact of climate change, reduced services from the mainland, and the need to provide quality education to our students and community, we listen to both our youth and our elders in finding the best ways forward in a changing world.

### Emissions and Offsets Summary:

*Please fill in this emissions summary table. The final values for this table will be available on your SMARTTool Home page by May 15, 2014 and on the Offsets Invoice you will receive May 15, 2014.*

<b>Organization X GHG Emissions and Offsets for 2013 (TCO2E)</b>	
<b>GHG Emissions created in calendar year 2013 (from SMARTTool Homepage)</b>	
Total Emissions	<i>582.15 tonnes</i>
Total Emissions for Offsets	<i>574</i>
<b>Adjustments to GHG Emissions Reported in Previous Years (from SMARTTool Homepage)</b>	
Total Emissions	<i>3</i>
Total Emissions for Offsets	<i>577</i>
<b>Credit owing from PCT at end of 2012 reporting year (if applicable – from May 15 Invoice):</b>	
Credit Owing	<i>n/a</i>
Total Emissions for Offsets for the 2013 Reporting Year (from Offset Invoice):	<i>577</i>



Signature

My 50 2014

Date

Angus Wilson

Name (please print)

Superintendent of Schools / Secretary  
Treasurer

Title

# 2013 Carbon Neutral Action Report (CNAR) - Part 2 ACTIONS

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<http://fluidsurveys.com/surveys/cas-z/2013-cnar-form-bps-actions/ae09a4c7086111133d32347587f35b6a/>

*Filled Friday, February 07, 2014*

Please complete the following sections of the 2013 Carbon Neutral Action Report form. Save your work frequently to prevent it from being lost. You can also save a copy for your own use as either a WORD or PDF file using the buttons at the bottom of each page. This is Part 2 of the Carbon Neutral Action Report form. This section reports on actions taken to reduce emissions during the 2013 calendar year. This information will be included in your final Carbon Neutral Action Report posted on the Ministry of Environment website. When the form is complete press the submit button on the last page to automatically submit the information to the Climate Action Secretariat (CAS). Do not press submit before you are ready – this may result in a loss of work. In addition to completing this survey (Part 1 & 2), you are required to submit your completed Overview (Executive Summary) and Self-Certification Checklist. The 2013 Overview template was included in the email sent and can also be found on the LiveSmart leaders Community. Please ensure you meet the following reporting deadlines: A DRAFT 2013 CNAR is due to CAS by March 31, 2014. The draft is comprised of the Overview ONLY (no executive sign-off required). The FINAL 2013 CNAR is due to CAS by May 30, 2014. The final 2013 CNAR includes Part 1 & Part 2 survey form and Overview. The Self-Certification Checklist is due to CAS by May 15, 2014. For more information about the Carbon Neutral Government process, please refer to Becoming Carbon Neutral 2013, or should you have any questions please contact [climateactionsecretariat@gov.bc.ca](mailto:climateactionsecretariat@gov.bc.ca).

**Organization Name**

School District 50

## Actions Taken to Reduce Emissions

### **1) Stationary Fuel Combustion, Electricity (Buildings): Indicate which actions were taken in 2013:**

Performed energy retrofits on existing buildings

Yes

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

No

Undertook an evaluation of overall building energy use.

Yes

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

Supplementary Solar Panels, upgrading windows, insulation, lighting.

### **2) Mobile Fleet Combustion (Fleet and other vehicles): Indicate which actions were taken in 2013:**

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

No

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

In 2011 we replaced one of our four V8 vehicles with a four cylinder one. Another replacement may occur in 2014. One lawn mower was moved to Masset to reduce travel for mowing (120km one way)

### **3) Supplies (Paper):Indicate which actions were taken in 2013:**

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:

Since 2008 we have massively reduced paper usage via virtual meetings, drop box, etc but these improvements have already occurred.

Page 3

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

Explain how you plan to continue minimizing emissions in 2014 and future years:

The single most significant factor is updated/new buildings in reducing our emissions. We have continued to replace single pane windows, increased insulation, replaced aging oil furnaces with efficient propane ones, and are researching biomass heat.

The second and less impactful change is to continue trying to reduce travel. However, as a extremely large district with tiny schools, the area for improvement is limited.

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

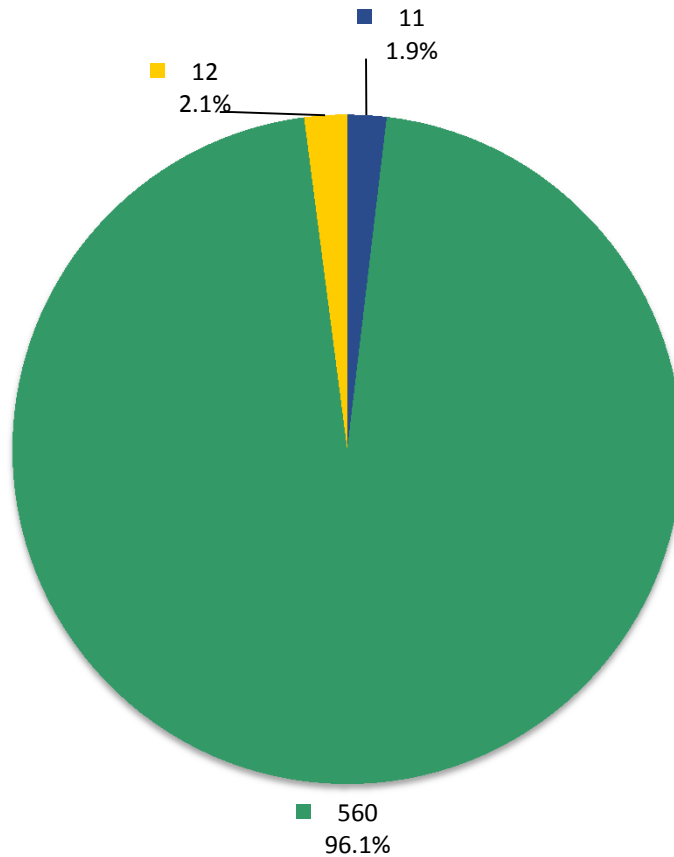
No

Page 6

**Thank you for completing the 2013 Carbon Neutral Action Report. If this form is now complete please use the submit button below to forward it to the Climate Action Secretariat, otherwise you can save it to continue at a later time. Only use the submit button once the form is 100% complete. You can also save your own copy as a WORD or PDF file. Once you click the submit button, the Climate Action Secretariat will create a PDF summary of these actions to append to your final CNAR Overview when it is submitted. Together, these will be posted on the Ministry of Environment website by June 30, 2014 as your final report for 2013.**



**School District 50 - Haida Gwaii  
Greenhouse Gas Emissions by Source  
for the 2013 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 582**

- 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 2013 (Generated May 21, 2014 3:49 PM)**

Total offsets required: **574**. Total offset investment: **\$14,350**. Emissions which do not require offsets: **8** \*\*

\*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.