

## **2013 Carbon Neutral Action Report**

This is the 2013 Carbon Neutral Action Report (CNAR) for School District #60 Peace River North. This report contains our emissions profile, offset purchased, the actions we have taken in 2013 to reduce our greenhouse gas emissions (GHG) and our plans to continue reducing emissions in 2014 and beyond. This report will be posted by June 30, 2014 on our website at [www.prn.bc.ca](http://www.prn.bc.ca)

Peace River North School District is entering its 13<sup>th</sup> year of energy conservation. Initial steps contained the directions of reduce, reuse and recycle to which the district has also added the dimensions of re-think, refuse and re-purpose providing additional direction in obtaining carbon neutrality and personal responsibility. Carbon reduction relationships that have been established over the years will be continued with district personnel seeking to further their knowledge and skills in the operation of building systems. The district continues to face growth pressures and all forms of energy reduction and conservation will be considered and as much as possible be implemented in new and renovated construction.

2013 was indeed a challenging year for the district. The districts mandate requires every effort to be compliant with all governing body requirements including Health and Safety, WCB, Fire code, electrical and mechanical, BC building code and other requirements in its reduction of carbon use. Many of these requirements increased our carbon output necessitating the need to find offsetting reductions. Some of this offset was obtained by the co-operation of staff and students not only in work space expectations but also in day to day personal responsibility.

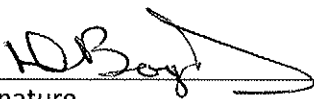
In 2012 we started on a course of reducing water consumption by installing low flow water faucets, waterless urinals and low consumption toilets. This program has continued into 2013 and will be part of every renovation continuing forward. The hand dryer installation program continues with the goal of reducing paper products in the washrooms. Low efficiency furnaces are being replaced; 2014 will see the end of this program. We have initiated the replacement of mid efficiency furnaces and low efficiency boilers in 2013 and will continue through 2014 as funding permits. Our carbon dioxide sensors are being re-calibrated and or replaced controlling the required outdoor air to occupied space. Direct digital control programs are scrutinized; strategies are looked at and compared with present technology to determine if program changes would increase savings.

Destination Conservation has continued to be a provider of energy use and reduction strategies to staff and students. In the past we have had monetary support for this program from community benefactors and although this year outside funding did not happen the district felt the value of the program necessitated its continuation. Schools are at different levels in the program with some being in their third year. Green teams are active and continue to be supported by the program and district personnel. Staff and students are encouraged to bring lunches in reusable containers to reduce garbage. North Peace Senior Secondary continues to monitor and document effects of the solar rooftop panels and uses this information in classroom instruction. This instruction and exercise provide students with the knowledge and choices in their use of all forms of energy. We are planning to provide real time monitoring to further this instruction.

Peace River North School District will continue on the path of energy monitoring looking for areas of reduction while providing a safe comfortable working environment for all occupants of the buildings and grounds. It is our purpose to find and secure that happy medium of lower energy use resulting in lower carbon emissions while providing acceptable space in which to live and work. To this end we all must be contributors; not only in mechanical expectations but also in personal purpose.

**Emissions and Offsets Summary:**

<b>SD60 GHG Emissions and Offsets for 2013 (TCO2E)</b>	
<b>GHG Emissions created in calendar year 2013 (from SMARTTool Homepage)</b>	
Total Emissions	4406
Total Emissions for Offsets	3166
<b>Adjustments to GHG Emissions Reported in Previous Years (from SMARTTool Homepage)</b>	
Total Emissions	0
Total Emissions for Offsets	0
<b>Credit owing from PCT at end of 2012 reporting year (if applicable – from May 15 Invoice):</b>	
Credit Owing	0
Total Emissions for Offsets for the 2013 Reporting Year (from Offset Invoice):	3166

  
 Signature

June 10/14  
 Date

Doug Boyd  
 Name (please print)

Secretary Treasurer  
 Title

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

Created Thursday, February 27, 2014

Updated Tuesday, March 18, 2014

<https://fluidsurveys.com/surveys/cas-z/2013-cnar-form-bps-actions/16d8ac2f54655495769ea2c28604afdd/>

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## Page 1

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 # 60 Peace River North*

**Actions Taken to Reduce Emissions**

1) Stationary Fuel Combustion, Electricity (Buildings):

Indicate which actions were taken in 2013:

Performed energy retrofits on existing buildings

*No*

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

*No*

Undertook an evaluation of overall building energy use.

*No*

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

*Completed replacement of all older single furnace units with high efficiency furnaces. Replacement of 50% of outdoor parking lot lighting with LED pole mount fixtures. Replacement of 30 exit signs with self-powered units. Replacement of 35 exterior windows and frames with higher efficiency units. Replacement of 5 mid efficient furnaces with high efficiency boilers and air handling units.*

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)

*Yes*

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:

(No response)

3) Supplies (Paper):

Indicate which actions were taken in 2013:

Used less paper than previous year

Yes

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)

Actions Taken to Reduce Emissions - continued

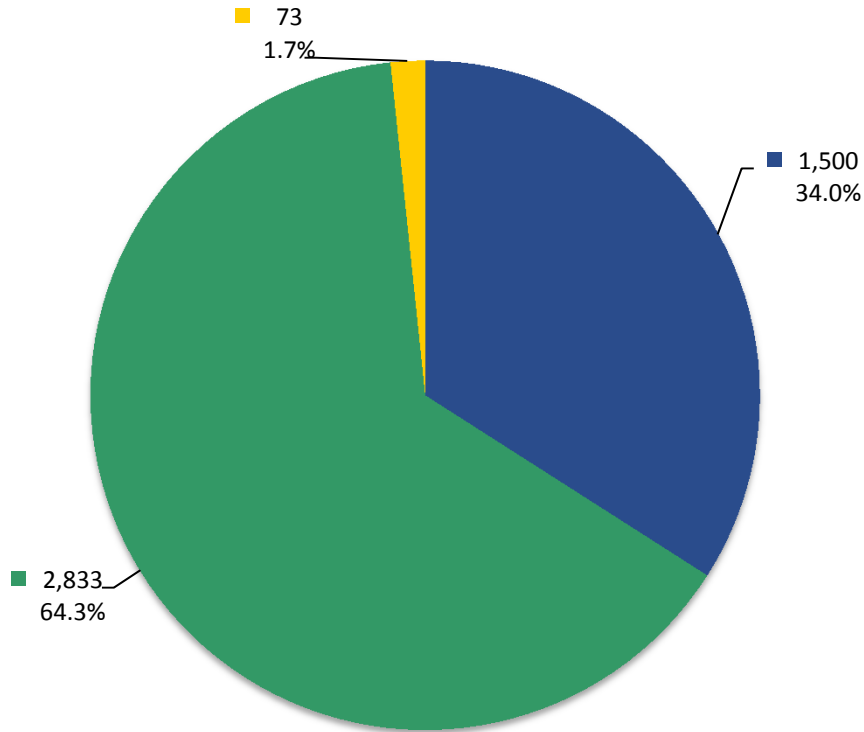
Explain how you plan to continue minimizing emissions in 2014 and future years:

*All of our older style low efficiency furnaces have been replaced with high efficiency furnaces and we have started on older boiler replacement as funding permits. All lighting is T8 or T5 and electronic ballast with some LED fixtures. We are continuing with the re-calibration of the CO2 sensors controlling outdoor air and changing running times for air handling units. Some occupancy sensors will be installed where there is potential for return. Monitoring will play a larger part in energy reduction than in the past.*

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 60 - Peace River North (Fort St.John)  
Greenhouse Gas Emissions by Source  
for the 2013 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 4,406**

- 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 3:57 PM)**

Total offsets required: **3,166**. Total offset investment: **\$79,150**. Emissions which do not require offsets: **1,240** \*\*

\*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.