



School District No. 6 (Rocky Mountain)

2013 Carbon Neutral Action Report

Executive Summary

Rocky Mountain School District has continued to make progress in reducing greenhouse gas emissions. The main source of these energy and greenhouse gas savings is the result of implementing building energy retrofit projects, and changes to the operation of buildings and vehicles. The School District's focus on environmental stewardship has been a key driver for success in reducing greenhouse gas emissions. This focus has led to the prioritisation of staffing resources, and capital projects, as well as education programs focussing on energy reduction and environmental stewardship.

In the Fall of 2012 our Energy Manager, who was hired in 2009 with financial assistance from BC Hydro, had the responsibility of leading the planning and implementation of energy and facility renewal projects, but left our School District to pursue a new opportunity. Unfortunately, funding was not available to replace his position; therefore, existing Operations Management personnel have assumed these responsibilities. This extra work load has impacted our ability to focus on energy management and greenhouse gas reduction.

On-going benchmarking of energy performance for buildings, vehicles, and other energy consumption continues; however, without a dedicated individual to focus on this important area, energy monitoring and reduction initiatives tend to get sidelined as staff focus on their primary responsibilities. We are continuing to explore options to improve this situation.

A handwritten signature in black ink, appearing to read 'Cameron Dow'.

Cameron Dow
Secretary Treasurer



2013 Greenhouse Gas Emissions

A total of 1327 tonnes of greenhouse gas emissions were emitted by the school district during the 2013 calendar year, from all sources covered by the Greenhouse Gas Reduction Targets Act.

SD6 GHG Emissions and Offsets for 2013 (TCO2E)	
GHG Emissions created in calendar year 2013 (from SMARTTool Homepage)	
Total Emissions	1922
Total Emissions for Offsets	1327
Adjustments to GHG Emissions Reported in Previous Years (from SMARTTool Homepage)	
Total Emissions	0
Total Emissions for Offsets	0
Credit owing from PCT at end of 2012 reporting year (if applicable – from May 15 Invoice):	
Credit Owing	0
Total Emissions for Offsets for the 2013 Reporting Year (from Offset Invoice):	1327



Emissions Reduction Activities

Actions Taken by the Rocky Mountain School District to Reduce Greenhouse Gas Emissions in 2013

Projects to reduce energy consumption and greenhouse gas emissions implemented in 2013 included:

- Replacement of old inefficient propane gas fired boilers at Alexander Park Elementary. New high efficient condensing boilers were installed, new variable speed pumps and a DDC controls upgrade were all done to improve operational efficiency.
- Replacement of old inefficient oil fired boilers at Golden Alternate School. New high efficient condensing furnaces were installed, complete with a new DDC controls to improve operational efficiency.
- During 2013 schools continued to promote practices such as recycling, composting, operating greenhouses, and planting trees.

Plans to Continue Reducing Greenhouse Gas Emissions 2014 – 2015

Our School District will need to overcome a significant hurdle to continue to be proactive in carbon reduction activities. The loss of our Energy Manager has created a significant challenge for our School District.

Reducing energy consumption and greenhouse gas emissions will continue to be an important focus for the Rocky Mountain School District. Projects planned for the next three to five years show the potential for the School District to save energy costs, while significantly reducing greenhouse gas emissions and contributing becoming carbon neutral. Some projects planned for the next three to five years include:

- Replacement of old control system with a new DDC control system at Selkirk Secondary.
- Installation of a new HVAC system for the IE Shops at Selkirk Secondary to improve ventilation which will eliminate the operation of old inefficient systems.
- Boiler upgrades at a two (2) elementary schools.
- DDC control upgrades and installations on various buildings.
- Gymnasium occupancy control of ventilation systems.
- Lighting upgrades and installation of occupancy controls throughout the District.
- Increased roofing insulation and wall insulation with cladding and roof upgrades at a number of buildings.
- Student and employee behavioural change education projects.

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

Created Wednesday, April 09, 2014

Updated Wednesday, April 16, 2014

<https://fluidsurveys.com/surveys/cas-z/2013-cnar-form-bps-actions/842599fae57c9e09a4c6d99134438a0c/>

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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.

Organization Name

School District No. 6 (Rocky Mountain)

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.

No

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

(No response)

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:

(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

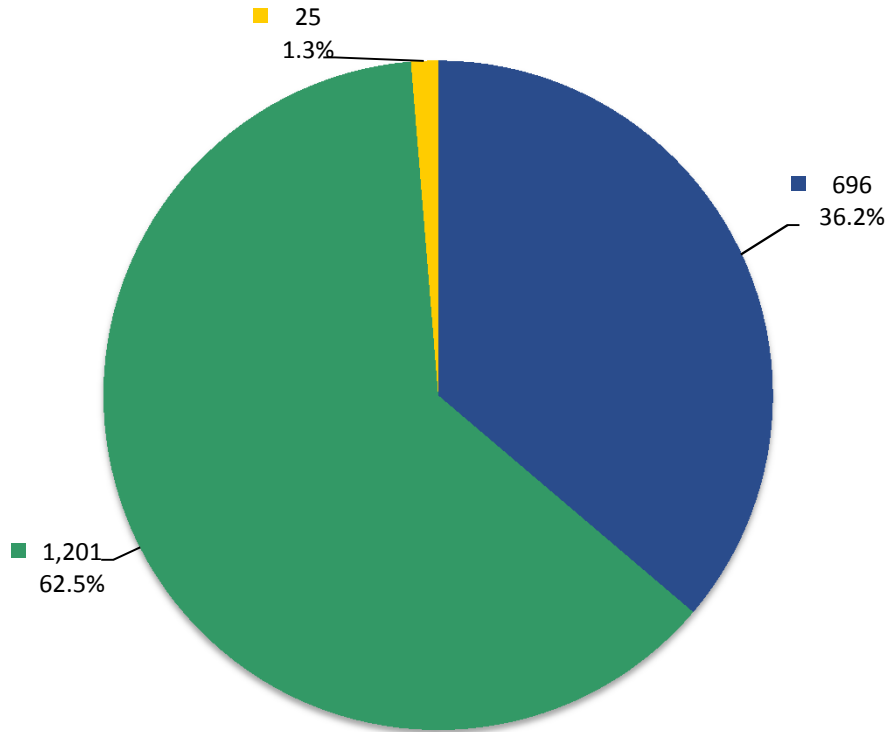
Explain how you plan to continue minimizing emissions in 2014 and future years:

Continuing to upgrade systems to operate more efficiently and to develop a sustainable energy management plan that current staffing levels can achieve.

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 06 - Rocky Mountain Greenhouse Gas Emissions by Source for the 2013 Calendar Year (tCO₂e*)



Total Emissions: 1,922

- 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 3:14 PM)

Total offsets required: **1,327**. Total offset investment: **\$33,175**. Emissions which do not require offsets: **595** **

*Tonnes of carbon dioxide equivalent (tCO₂e) 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.