

School District No 75 (Mission)
2013 Carbon Neutral Action Report

May 21, 2014

This is the 2013 Carbon Neutral Action Report (CNAR) for School District No 75 (Mission). 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, School District No 75's final CNAR will be posted to our website at www.mpsd.ca.

School District No 75 promotes GHG emission reductions and environmental sustainability through both specific initiatives and guiding policies and procedures. The district's *Environmental Sustainability* policy promotes learning and leadership opportunities related to sustainability, energy and resource conservation, support for continuous monitoring of key environmental metrics, and support for environmental stewardship for both students and staff. The district also has an administrative procedure which previously established baseline energy consumption metrics, and stipulates the establishment of quarterly energy metrics, an annual review of targets, a target of 5% annual reduction of energy consumption, and remaining compliant with District of Mission GHG emission reduction targets (20% reduction between 2008 and 2020). However, while these policies, procedures, and goals remain in place, the loss of senior district positions in this area, including a dedicated Energy Manager, along with other operational and capital funding constraints, has had a significant impact on the ability of the district to continue with the monitoring, reporting, and implementation of initiatives necessary to meet district goals.

Despite fiscal pressures, there were several initiatives taken in 2013 to reduce GHG emissions, including:

- Replacement of boiler plant at Albert McMahon Elementary with high efficiency system
- LED lighting upgrades at the Clarke Theatre
- Envelope repair project at Hatzic Elementary, which included an upgrade to more energy efficient windows
- Implementation of frequency drive controlled pumps with various mechanical upgrades
- Wattage reduction continues across a majority of district facilities, helping to reduce annual kilowatt hours of electrical energy
- Continued implementation of sleep/shutdown protocols for computer and multi-function devices

Going forward into 2014, there are plans for further reduction of GHG emissions, including:

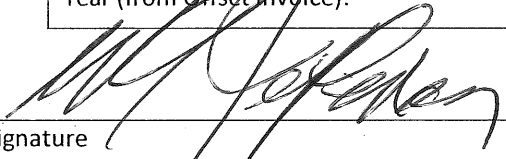
- Increase in the duration of spring break from one week to two weeks, which will reduce energy consumption in district facilities over that additional time frame
- Mechanical systems upgrade at Hillside Elementary, including replacement of four inefficient boilers, and the domestic hot water system

- Boiler plant and DDC upgrade at Fraserview Elementary
- Ongoing deployment of room occupancy sensors where practical
- Expansion of waste reduction/recycling and composting programs to elementary schools
- Continued virtualization of technological infrastructure
- Continued implementation of LED lighting in schools

All proposed initiatives are contingent on adequate operational and capital funding, which continues to come under increasing pressure.

Emissions and Offsets Summary:

School District No 75 (Mission) GHG Emissions and Offsets for 2013 (TCO2E)	
GHG Emissions created in calendar year 2013 (from SMARTTool Homepage)	
Total Emissions	2,236
Total Emissions for Offsets	1,871
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):	1,871

 Signature	MAY 21, 2014 Date
WAYNE JEFFERSON Name (please print)	SECRETARY TREASURER Title

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

Created Wednesday, March 05, 2014

Updated Friday, May 16, 2014

<https://fluidsurveys.com/surveys/cas-z/2013-cnar-form-bps-actions/2dcb45b46efe9c033f10a664b871f756/>

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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 75 (Mission)

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:

(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

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:

(No response)

Actions Taken to Reduce Emissions - continued

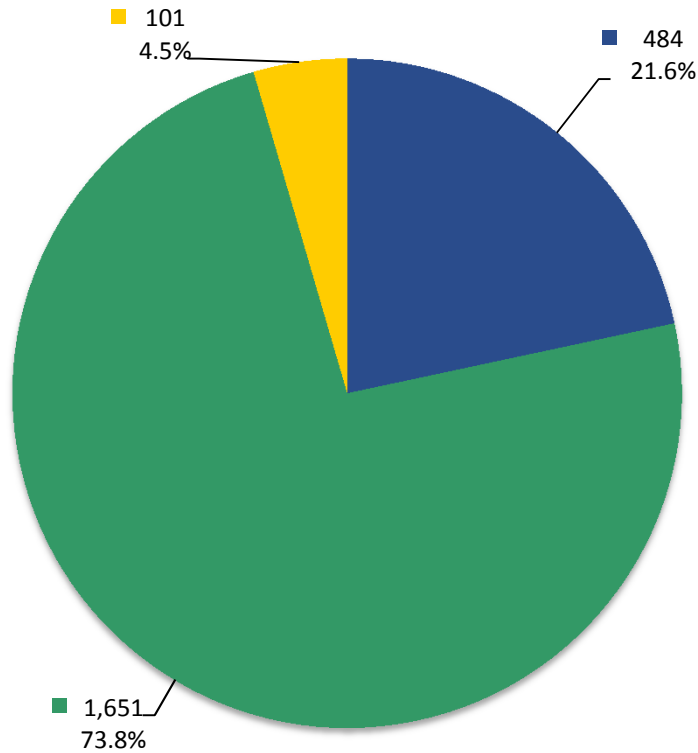
Explain how you plan to continue minimizing emissions in 2014 and future years:

The district continues to implement sleep/shutdown protocols for computers and multi-function devices, and there are plans to upgrade the mechanical systems at Hillside Elementary by replacing four inefficient boilers and the related domestic hot water and DDC control systems.

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 75 - Mission
Greenhouse Gas Emissions by Source
for the 2013 Calendar Year (tCO₂e*)**



Total Emissions: 2,236

- 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 4:12 PM)

Total offsets required: **1,871**. Total offset investment: **\$46,775**. Emissions which do not require offsets: **365** **

*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.