



School District 93 2013 Carbon Neutral Action Report

Executive Summary

As part of its overall long-term Strategic Plan, the Conseil scolaire francophone recognizes the importance that all environmental learning aims to integrate environmental thinking and ideas into students' everyday lives. In this way, it is hoped that students will begin to realize how they can take personal responsibility and leadership in creating a more environmentally sustainable way of life. We must also turn to ourselves, as an educational institution and as individuals, to make changes and develop a new ethic – a responsible attitude toward caring for the Earth. Working to integrate environmental learning within all subject areas promotes this change in attitude by providing students with opportunities to experience and investigate the relationships linking individuals, societies, and natural surroundings. Schools continue to expand environmental learning into the curriculum. Recycling, composting and waste reduction programs continue to expand in the schools with increased student and teacher participation.



Through its Capital Program, the CSF practices environmental sustainability by requiring LEED certification that is demonstrated by the LEED Silver designation granted to École Victor-Brodeur in Victoria and École Jules-Verne in Vancouver; and LEED Gold Certification granted to École Mer-et-montagne in Campbell River and École Au-cœur-de-l'île in the Comox Valley. Although the CSF has difficulties in meeting Energy Retrofit minimum funding criteria, it continues to focus on energy efficient renovations as part of its Annual Facilities Grant Program. Removal of single pane glazing for the windows, installation of energy efficient lighting systems, installation of modern and



energy efficient HVAC systems in our schools, re-commissioning and re-balancing the HVAC systems are examples of existing short and long-term retrofit programs that form part of the CSF AFG Plan. Discussions with representatives from Terasen Gas, BC Hydro, VFA and other companies are resulting in

further investigation into programs that will assist CSF in its quest for carbon neutrality. Some of them include boilers replacement, lighting retrofit, re-commissioning and re-balancing of the HVAC systems, etc. All these projects will reduce our carbon footprint.

Sylvain Allison
Secretary-Treasurer

2013 Greenhouse Gas Emissions

The 2013 greenhouse gas emissions for the School District 93 comes to a total of 1852 tonnes of CO₂e, 22% less than the previous year.

Offsets Applied to Become Carbon Neutral in 2013

The total emission offsets have been applied to become carbon neutral for 2013.

Changes to Greenhouse Gas Emissions & Offsets Reporting from 2012

The SD93 made the necessary corrections to the offsets applied in 2012 and paid the outstanding difference of 80 tonnes.

Emissions Reduction Activities

Actions Taken to Reduce Greenhouse Gas Emissions in 2013

In 2013, our Maintenance Department utilized its very limited funding for several HVAC and electrical upgrades in an attempt to increase efficiency and reduce energy costs. Some of them

include the replacement of the old boilers at École Anne-Hébert in Vancouver with new and modern ones; lighting retrofit done at École du Bois-joli in Tsawwassen; various lighting retrofits done at École Anne-Hébert, École du Bois-joli and École des Voyageurs in Langley; re-commissioning and re-balancing of the HVAC systems at École Victor-Brodeur in Victoria, École Au-cœur-de-l'île in Comox and École Gabrielle-Roy in Surrey; 24/7 programs in place for some of our schools, to insure continuous DDC monitoring and measuring the efficiency of our centrally controlled heating and ventilation systems, which continue to be a focus in an attempt to reduce the consumption of natural gas and to provide balanced systems in a variety of structures and school buildings across the District.

One hundred and forty eight bus routes operate each day providing transportation services to 80% of francophone students attending regional school throughout the province of British Columbia. Over the past 4 years, the CSF has purchased an extensive transportation mapping software to take control of its students' transportation activities. The goal is to optimize as much as possible the CSF's bus routes and thereby minimize the overall environmental impact of such a complex bussing system.

Reports were provided to schools in regards to photocopying and paper consumption. Schools are expected to manage consumption at the school level through administrative vigilance. The majority of schools have moved away from paper newsletters and chose to publish newsletters online only on their school websites. Also, the CSF developed virtual classrooms and discussion boards to reduce its paper consumption.



Plans to Continue Reducing Greenhouse Gas Emissions 2013–2015

Plans for future reduction of Greenhouse Gas Emissions will continue to focus on the moral and economic imperatives. Our future Green Team Task Force will establish a program to educate our students, staff and parents. The environmental education and sustainable behaviour change will continue to be one of our main goals over the next three years. We will continue encouraging schools to support behavioural changes related to sustainability by linking curriculum to school district practice.

The Maintenance Department will prioritize the HVAC, windows and lighting upgrades that contribute to more energy efficient systems. The new schools will be built based on a LEED Gold concept, all the new installations being based on the latest technology.



Sylvain Allison
Secretary-Treasurer

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

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<https://fluidsurveys.com/surveys/cas-z/2013-cnar-form-bps-actions/629834b91cbda1f5a16b9b0c210c135d/>

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.

Organization Name

Conseil Scolaire Francophone de la Colombie Britannique SD93

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:

- emergency lighting retrofit École du Bois Joli - Tsawwassen;
- lighting retrofit École des Deux Rives - Mission;
- HVAC re-commissioning and DDC re-programming for École Victor Brodeur - Victoria;
- HVAC re-commissioning and DDC re-programming for École Au-cœur de l'île - Comox;
- HVAC re-commissioning École Gabrielle-Roy - Surrey;
- DDC 24/7 monitoring École Franco Nord - Prince George, École Victor Brodeur - Victoria, École Au-cœur de l'île;
- Boiler Up-grade École Anne Hébert - Vancouver;
- Gym lighting up-grade École des Voyageurs - Langley;
- Gym lighting up-grade École Anne Hébert - Vancouver;
- HVAC retrofit École Entre Lacs - Penticton;

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

Yes

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

We purchase only energy efficient vehicles (hybrid when possible)

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:

used digital archiving whenever possible

Actions Taken to Reduce Emissions - continued

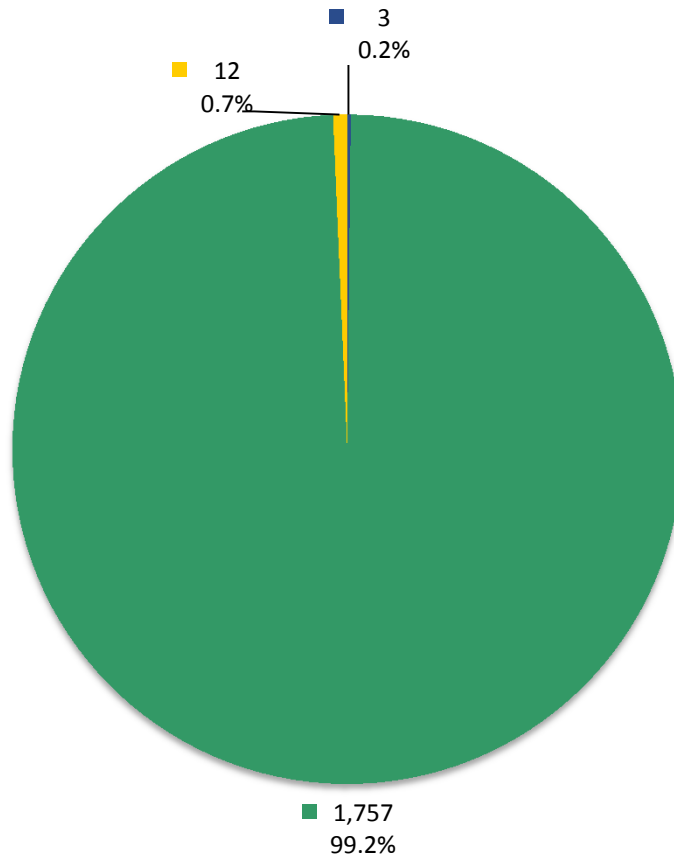
Explain how you plan to continue minimizing emissions in 2014 and future years:

We'll keep up-grading and re-balancing the HVAC system, retrofitting the lighting systems, use LED technologies for new building, go for Leed Gold for new buildings, etc

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 93 - Conseil Francophone
Greenhouse Gas Emissions by Source
for the 2013 Calendar Year (tCO₂e*)**



Total Emissions: 1,772

- 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 4:23 PM)

Total offsets required: **1,772**. Total offset investment: **\$44,300**. Emissions which do not require offsets: **0** **

*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.