

School District 93 2014 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, re-balancing and installing modern controls for 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. All these projects will reduce our carbon footprint.

Sylvain Allison
Secretary-Treasurer

Simon Couture
Director of Finance

2014 Greenhouse Gas Emissions

The 2014 greenhouse gas emissions for the School District 93 came to a total of 1855 tonnes of CO₂e, 1% more than the previous year, even though we opened a new school in Rossland and we installed four new portable classrooms, increasing considerably the floor space area.

Offsets Applied to Become Carbon Neutral in 2014

The total emission offsets (1855) have been applied to become carbon neutral for 2014.

Changes to Greenhouse Gas Emissions & Offsets Reporting from 2013

The SD93 made the necessary corrections to the offsets applied in 2013 and paid the outstanding difference of 80 tonnes.

Emissions Reduction Activities

Actions Taken to Reduce Greenhouse Gas Emissions in 2014

In 2014, 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 unit ventilators at École Entre Lacs in Penticton with Rooftop Units; lighting retrofit in the Gymnasium at École Franco Nord in Prince George; re-commissioning and re-programming the entire HVAC system and controls at École André Piolat in North Vancouver, École Gabrielle Roy in Surrey, École Mer-et-montagne in Campbell River, École Au Coeur de l'île in Comox and École Jules Verne in Vancouver, installation of controls on the main boiler plant at École Rose des Vents in Vancouver, 24/7 HVAC 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 5 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 2015–2017

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



Simon Couture
Director of Finance

2014 Carbon Neutral Action Report (CNAR) - Part 2 ACTIONS

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 2014:

Performed energy retrofits on existing buildings

Yes

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

Yes

Undertook an evaluation of overall building energy use.

Yes

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

Re-commissioned the HVAC systems in a number of schools and did DDC re-programming to fine tune the equipment usage, to save energy and increase comfort.

2) Mobile Fleet Combustion (Fleet and other vehicles): Indicate which actions were taken in 2014:

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 2014, we increased our fleet from 4 to 5 Hybrid vehicles. We buy ONLY hybrid.

3) Supplies (Paper):Indicate which actions were taken in 2014:

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)

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Actions Taken to Reduce Emissions - continued

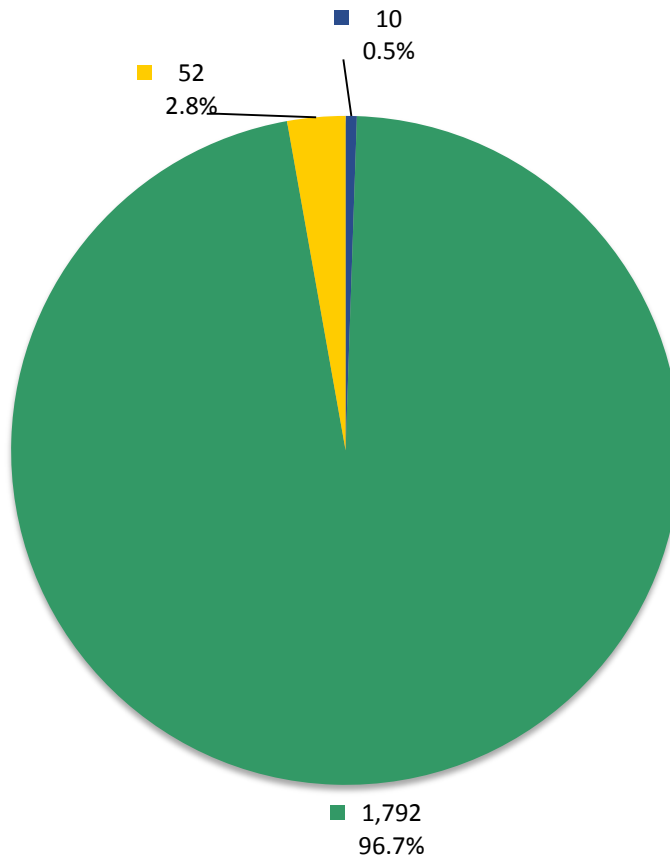
Explain how you plan to continue minimizing emissions in 2015 and future years:

- build only Leed Gold new buildings;
- re-commission and monitor all the HVAC systems, re-write DDC programs to optimise usage;
- replace old HVAC systems with new;
- retrofit lighting with LED;
- purchase only hybrid small vehicles;
- encourage staff to use less paper, to recycle existing;
- staff to commute to work by bicycle, bus, 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 2014 Calendar Year (tCO₂e*)**



Total Emissions: 1,855

- 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 2014 (Generated June 23, 2015 3:53 PM)

Total offsets required: **1,855**. Total offset investment: **\$46,375**. 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.