



## **CONSEIL SCOLAIRE FRANCOPHONE DE LA COLOMBIE-BRITANNIQUE**

### **School District 93 2011 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 LEEDS certification that is demonstrated by the LEEDS Silver designation granted to École Victor-Brodeur and École Jules-Verne. Two construction projects in Campbell River and Comox areas have

been finalized in the fall of 2011 and both of them received the LEEDS Gold certification. The CSF is in the process of establishing a Green Team Committee that will be mandated to coordinate and support all aspects of helping students and the community to learn about how they are connected to natural environment through direct experience in both natural and human designed systems like their school buildings.



Although the CSF may not meet 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 and modern and energy efficient HVAC systems in our schools are examples of existing short and long-term retrofit programs that form part of the CSF AFG

Plan. Discussions with representatives from Terasen Gas, VFA and other companies are resulting in further investigation into programs that either utility can offer to the CSF to assist in its quest for carbon neutrality. One of them has been the replacement of the heating system with a new and modern one, in a school in Prince George, a very large project that started a few years ago and that has been finished in September 2011, project that will reduce our carbon footprint.



Sylvain Allison  
Secretary-Treasurer

## 2011 Greenhouse Gas Emissions

The 2011 greenhouse gas emissions for the School District 93 comes to a total of 2333,43 tonnes of CO<sub>2</sub>e.

## Offsets Applied to become Carbon Neutral in 2011

The total emission offsets have been applied to become carbon neutral for 2011.

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## **Changes to Greenhouse Gas Emissions & Offsets Reporting from 2010**

The SD93 made the necessary corrections to the offsets applied in 2010 and paid the outstanding difference of 91 tonnes.

## **Emissions Reduction Activities**

### **Actions Taken to Reduce Greenhouse Gas Emissions in 2011**

In 2011 our Maintenance Department utilized its very limited funding for several HVAC upgrades in an attempt to increase efficiency and reduce energy costs. We replaced a few rooftop units, we did major repairs and set-ups for the heating systems in many schools to increase efficiency, we finished a large scale project started a few years ago and finalized in September 2011 – the replacement of a heating system with a new and modern one, for a school in Prince George.

Also, both schools built in Comox and Campbell River use a « green » geothermal heating system, and they received the Leed Gold Certification.

Monitoring and measuring the efficiency of our centrally controlled heating and ventilation systems continued to be a focus for us 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.

148 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 two years, the CSF embarked on restructuring its transportation system that includes a rewrite of its transportation policy and the purchase of an extensive transportation mapping software. The goal is to develop a system that provides reasonable service levels while reducing the overall environmental impact of such a complex bussing system.

Reports were provided to schools to in regards to photo copying 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 only on their school websites. Also, we developed virtual classrooms and discussion boards, to reduce our paper consumption.

## **Plans to Continue Reducing Greenhouse Gas Emissions 2011–2013**

Plans for future reduction of Greenhouse Gas Emissions will continue to focus on the moral and economic imperatives. Our future Green Team Committee 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.

A handwritten signature in black ink, appearing to read 'S. Allison'.

Sylvain Allison  
Secretary-Treasurer

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Actions Towards Carbon Neutrality							
The actions listed below contribute to a reduction in greenhouse gas emissions from sources for which public sector organizations are responsible under the carbon neutral government regulation of the <i>Greenhouse Gas Reduction Targets Act</i> .							
Action	Status (as of 12/31/11)	Performance to Date (as of 12/31/11)		Steps Taken in 2011	Steps Planned for 2012 -2014	Start Year	End Year
Mobile Fuel Combustion (Fleet and other mobile equipment)							
Vehicle fuel efficiency							
Replace vehicles with more fuel-efficient models	Ongoing/In Progress	100	% of vehicles are fuel- efficient models	Purchased a hybrid vehicle.	If we'll purchase more vehicles, they'll be fuel-efficient.	2008	No End Date (Continuous)
Perform regular fleet maintenance specifically to improve fuel- efficiency	Ongoing/In Progress	100	% of vehicles are subject to regular maintenance for fuel efficiency	Maintenance at dealership according to specs.	We'll continue the same procedures.	2008	No End Date (Continuous)
Behaviour change program							
Provide fleet driver training to reduce fuel use	Completed in 2011	100	% of current drivers are trained	Provided staff training.		2008	No End Date (Continuous)
Introduce anti-idling policy and/or raise anti-idling awareness for fleet drivers (e.g., signs, stickers, messages)	Ongoing/In Progress	60	of the schools have anti-idling signs installed	Installed anti-idling signs in front of some schools.	We'll continue the same procedures, for all the schools.	2008	No End Date (Continuous)
Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)							
Appliances and electronic devices							
Replace refrigerators with ENERGY STAR models or source ENERGY STAR models for future purchases	Ongoing/In Progress			Equipped the new kitchens with Energy Start models.	Will continue the same procedure.	2008	No End Date (Continuous)
Replace other appliances or electronic devices with ENERGY STAR models or source ENERGY STAR models for future purchases	In Development				Will replace the old models with the new efficient ones, for future purchases.	2008	No End Date (Continuous)
Behaviour change program							
Help staff reduce personal energy use through "workstation tune-ups"	Ongoing/In Progress	60	% of current staff have completed a workstation tune-up	Staff training.	Will continue the same procedure.	2008	No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Ongoing/In Progress			Staff training.	Will continue the same procedure.	2008	No End Date (Continuous)
Ask staff to close blinds at end of work day to reduce heating/cooling demands	Ongoing/In Progress			Staff training.	Will continue the same procedure.	2008	No End Date (Continuous)
Encourage staff to use air dry setting on dishwashers	Ongoing/In Progress			Staff training.	Will continue the same procedure.	2008	No End Date (Continuous)
Encourage use of stairs instead of elevators	Ongoing/In Progress			Staff training, signs posted.	Will continue the same procedure.	2008	No End Date (Continuous)
Promote hot water conservation	Ongoing/In Progress			Staff training.	Will continue the same procedure.	2008	No End Date (Continuous)
Supplies (Paper)							
Paper Type							
Purchase 30% post-consumer recycled paper	Ongoing/In Progress	90	% of total paper purchased contains 30% recycled content	Most of the paper products were purchased using a 30%recycled content.	Will continue the same procedure.	2009	No End Date (Continuous)
Electronic media in place of paper							

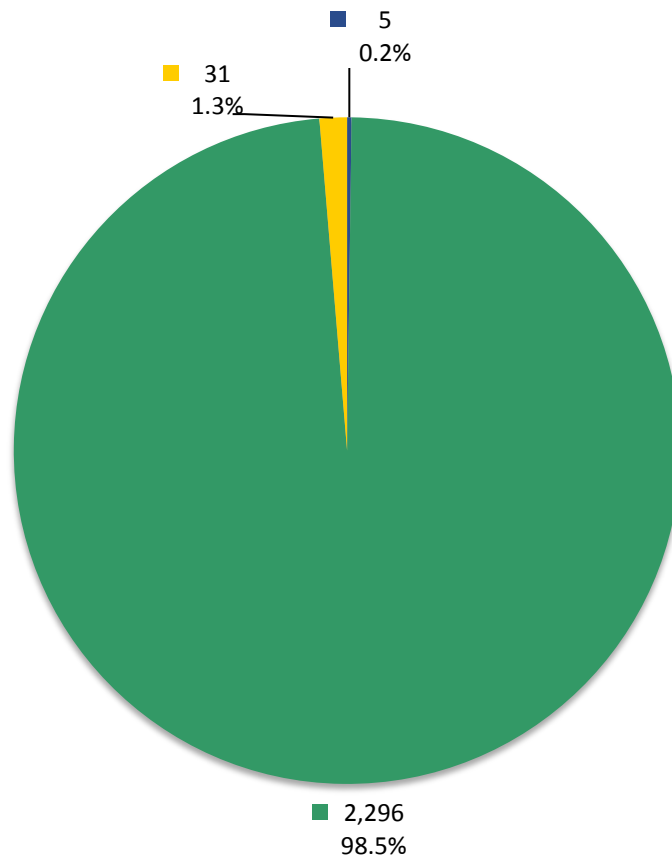
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Action	Status (as of 12/31/11)	Performance to Date (as of 12/31/11)		Steps Taken in 2011	Steps Planned for 2012 -2014	Start Year	End Year
Install collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	In Development	10	% of staff workstations with software installed		we are in the evaluation stage of this project	2014	No End Date (Continuous)
Use electronic document library for filing common documents	In Development				we are in the evaluation stage of this project	2014	No End Date (Continuous)
Post materials online that were previously printed	Ongoing/In Progress			All administrative forms, tutorials, support requests are now in electronic format on our Portal	Will continue the same procedure.	2009	No End Date (Continuous)
Behaviour change program							
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress			staff training	staff training	2005	No End Date (Continuous)
Encourage re-use of scrap paper	Ongoing/In Progress			staff training	staff training	1995	No End Date (Continuous)

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Actions to Reduce Provincial Emissions and Improve Sustainability							
The actions listed below contribute to a reduction in greenhouse gas emissions from sources that fall outside of the reporting requirements defined in the carbon neutral government regulation of the <i>Greenhouse Gas Reduction Targets Act</i> . Public sector organizations can optionally use this section to report on actions that will help British Columbia meet its provincial greenhouse gas reduction targets, engage the public, and improve environmental sustainability across all aspects of their organization.							
Action	Status (as of 12/31/11)	Performance to Date (as of 12/31/11)		Steps Taken in 2011	Steps Planned for 2012 -2014	Start Year	End Year
Business Travel							
Policy and budgeting							
Create a low-carbon travel policy or travel reduction goal	Ongoing/In Progress			travelling is reduced to a minimum, introduced virtual meetings wherever possible	will continue the same procedure	2011	No End Date (Continuous)
Behaviour change program							
Encourage staff to consider virtual attendance/presentation at events where possible	Ongoing/In Progress			80 % of the presentations are virtual, using elluminate, ichat, skype	will continue the same procedure	2011	No End Date (Continuous)
Education, Awareness, and Engagement							
Staff Professional Development							
Support green professional development (e.g., workshops, conferences, training)	In Development				will consider staff training	2013	No End Date (Continuous)
Staff awareness/education							
Provide education to staff about the conservation of water, energy, and raw materials	In Development				will consider staff training	2013	No End Date (Continuous)
Other Sustainability Actions							
Procurement (non-paper supplies)							
Implement sustainable purchasing program for cleaning products, disposable paper products and trash bags	Ongoing/In Progress			we established a policy for green cleaning products	will continue the same procedure	2011	No End Date (Continuous)
Indoor air quality							
Enforce a scent-free policy (e.g., no strong perfumes, deodorants, etc.)	Ongoing/In Progress			this policy was implemented in one school and the board office	will continue the same procedure	2010	No End Date (Continuous)
Incorporate low volatile organic compounds (VOCs) standards into procurement policy for products such as paints, carpets, and furniture	In Development				will promote a policy for our contractors	2012	No End Date (Continuous)
Commuting to and from home							
Encourage commuting by foot, bicycle, carpool or public transit	In Development				will encourage staff to commute green (by bicycle, carpool, public transit) to and from home	2013	No End Date (Continuous)
Provide secure bicycle storage	Ongoing/In Progress			bike racks installed in schools	will continue the same procedure	2008	No End Date (Continuous)

# School District 93 - Conseil Francophone Greenhouse Gas Emissions by Source for the 2011 Calendar Year (tCO<sub>2</sub>e\*)



**Total Emissions: 2,333**

- 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 2011 (Generated May 18, 2012 12:46 PM)

Total offsets required: **2,333**. Total offset investment: **\$58,325**. Emissions which do not require offsets: **0** \*\*

\*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.