

School District 72 (Campbell River)
2013 Carbon Neutral Action Report

1. OVERVIEW AND EXECUTIVE SIGN-OFF

1.1 Declaration Statement

This is the 2013 Carbon Neutral Action Report for School District 72. 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 72's final CNAR will be posted to our website at www.sd72.bc.ca

1.2 Emissions and Offsets Summary

School District 72 GHG Emissions and Offsets for 2013 (TCO2E)	
GHG Emissions created in calendar year 2013 (from SMARTTool Homepage)	
Total Emissions	2553
Total Emissions for Offsets	2173
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)	2173


Signature

May 20, 2014
Date

Tom Longridge
Name

Superintendent
Title

2. OVERVIEW/EXECUTIVE SUMMARY

2.1 How Carbon Neutrality Links to our Mandate

Carbon Neutrality is considered an integral component of sustainable environmental practices and education curriculum. The School District 72 Strategic Plan articulates the importance of environmental sustainability to our organization:

Strategic Focus 3 – An Expanded and Purposeful Environmental Ethic

What happens in our classrooms every day shapes future generations. As an educational organization, we must ensure by policy and action that environmental stewardship is an important theme in every school. We will continue to raise environmental awareness, implement “green” projects and initiatives, and encourage environmentally sustainable behaviours.

An example of the link between environmental sustainability and education curriculum is the BC Hydro and School District 72 partnership providing unique educational opportunities for teachers and students during the five-year construction period of the John Hart Generating Station Replacement Project. Students ranging from Kindergarten to High School will explore the importance of the Campbell River watershed from an economic, cultural, ecological and recreational perspective and, in the context of greenhouse gas emissions, investigate how electricity and hydroelectric power generation shape a community.

2.2 Broader Sustainability Goals of School District 72

School District No. 72 (Campbell River) adopted the following Environment Responsibility Policy B-15 on June 23, 2009.

The Board of Education has a responsibility towards sustainable environmental stewardship.

The Board of Education is committed to raising environmental awareness of all staff, students, trustees and the community by delivering effective environmental education and modeling environmentally responsible practices (with respect to wise water use, energy-use reduction and waste minimization). The Board will endeavour to:

- Provide teachers with environmental education resources
- Align what is taught in the classrooms with school operations (curriculum, transportation and facilities)
- Reduce its impact on the environment
- Recognize successful environmental initiatives and programs.

The Board of Education expects that:

- The School district will consistently consider the impact of the environment of decisions that are made in the delivery of curriculum and in daily operations
- Schools will integrate environmental education and environmentally responsible action within the school setting.

The Board of Education authorizes the establishment of an Environmental Awareness Focus Group, which will set goals in relations to

- Environmental education
- Effective implementation of sustainable environmental practices

- Ongoing measurement and evaluation of environmental performance.

Definitions

"Environment" is the surroundings in which an organization operates including air, water, land, natural resources, flora, fauna, humans and their inter-relations.

"Environmental Education" refers to organized efforts to teach about how natural environments function and, particularly, how human beings can manage their behaviour and ecosystems in order to live sustainably. Although the term is often used to imply education within the school system, from primary to post-secondary, it is sometimes used more broadly to include all efforts to educate the public and other audiences, including the use of print materials, websites, media campaigns, etc. Related disciplines include outdoor education and experiential education.

"Impacts on the environment" are any changes to the environment whether adverse or beneficial, wholly or partially resulting from an organization's products or services.

"Sustainable means practices that serve to meet the needs of the present without compromising the ability of future generations to meet their own needs.

"Stewardship" is the act of caring for something that one doesn't own.

2.3 Benefits of Reducing Energy use and GHG emissions

Since 2009, School District 72 has reduced its total energy consumption by 16.2%. As illustrated in the following table, the cumulative avoided costs of \$254,000 achieved over the past four years have mitigated the impact of increasing utility rates.

Year	Total kWh Consumption	Annual Savings		Total Savings		Notes		
		(\$/kWh) Compared savings from previous year	B. & % Reduction	Actual Cumulative \$ Savings	Attributed Costs			
2007	78,315	(2,742)	-3.7%	\$ (82,978.00)	\$ (82,978.00)	\$ (43,878.00)	\$ (128,852.00)	
2008	82,051	(\$,737)	-7.5%	\$ (124,718.00)	\$ (207,694.00)	\$ (94,093.00)	\$ (301,787.00)	
2009	83,679	(1,628)	-2.0%	\$ (74,711.00)	\$ (282,405.00)	\$ (27,633.00)	\$ (310,038.00)	Start EM Program April 2009
2010	75,101	8,578	10.3%	\$ 34,810.00	\$ (247,595.00)	\$ 160,107.00	\$ (87,488.00)	
2011	74,308	795	1.1%	\$ (37,122.00)	\$ (284,717.00)	\$ 11,758.00	\$ (272,959.00)	
2012	71,775	2,531	3.4%	\$ (19,504.00)	\$ (304,221.00)	\$ 49,033.00	\$ (255,188.00)	
2013	70,143	1,632	2.3%	\$ 18,115.00	\$ (288,108.00)	\$ 33,089.00	\$ (255,007.00)	

School District 72's achievement in energy savings is more apparent when considered in terms of energy intensity, which reflects changes in amount of building inventory under management. Our organization has reduced its energy intensity by 28.6% since 2009.

Energy Intensity [GJ(e) per square meters]				
2009	2010	2011	2012	2013
1.05	0.84	0.80	0.77	0.75

Greenhouse gas emissions have also decreased since 2009. Over the past four years, cumulative avoided costs of \$17,075 have been achieved in the purchase of carbon offset payments.

Reportable Greenhouse Gases in Tonnes CO₂(e)

Calendar Year	Direct Emissions		Indirect Emissions		Total non-exempt Emissions	Savings
	Buildings	Fleet	Buildings	Office Supplies		
2008	2103	449	194	108	2853	NA
2009	2151	355	226	124	2856	(\$75)
2010	1933	450	202	75	2690	\$4150
2011	1997	465	176	41	2695	(\$125)
2012	1977	470	174	60	2300	\$9875
2013	1900	517	91	45	2173	\$3175

In recognition of their achievements in energy conservation and environmental stewardship, the Community Energy Association awarded School District 72 and the City of Campbell River the 2013 Public Sector Collaboration category of the Climate and Energy Action Awards for their partnership in environmental efforts.

2.4 Environmental Sustainability

Details of our organization's commitment to environmental sustainability are found through the School District 72 website:

<http://www.sd72.bc.ca/aboutsd72/environment/Pages/default.aspx>

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

Created Monday, February 17, 2014

Updated Thursday, April 17, 2014

<https://fluidsurveys.com/surveys/cas-z/2013-cnar-form-bps-actions/70db891e5cd52c1177d972658d8eca9b/>

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

The Board of Education of School District 72 (Campbell River)

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:

Replaced 660 PCs with "Thin Clients", resulting in estimated annual savings of 36,460 KwHr.

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)

Yes

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:

Continued promotion of "anti-idling" campaign.

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:

Continued promotion of duplex printing.

Actions Taken to Reduce Emissions - continued

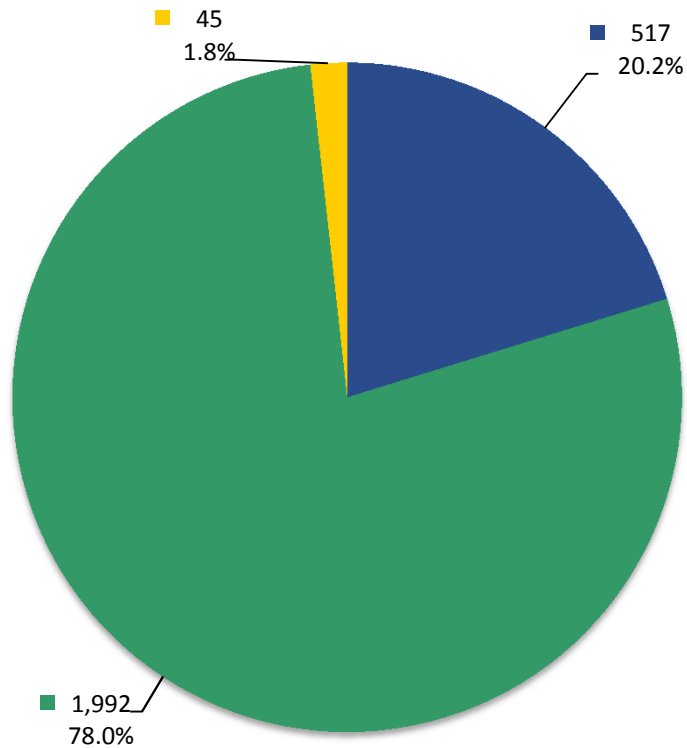
Explain how you plan to continue minimizing emissions in 2014 and future years:

Subject to funding availability, implement energy efficiency upgrades. Continue support for school-based environmental awareness initiatives.

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 72 - Campbell River Greenhouse Gas Emissions by Source for the 2013 Calendar Year (tCO₂e*)



Total Emissions: 2,553

- 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 4:08 PM)

Total offsets required: **2,173**. Total offset investment: **\$54,325**. Emissions which do not require offsets: **380** **

*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.