



Board of Education School District No. 91 (Nechako Lakes)

Carbon Neutral Action Report - 2014

This is the 2014 Carbon Neutral Action Report (CNAR) for Board of Education School District No. 91 (Nechako Lakes). This report contains our 2014 emissions profile, offsets purchased, the actions we have taken in 2014 to reduce our GHG emissions and our plans to continue reducing emissions in 2015 and beyond.

Our consumption has reduced by about 7% over 2013 with the greatest improvement in the mobile fleet consumption been reduced by 21% over 2013.

In 2014, our district's most inefficient HVAC system was permanently decommissioned and replaced with newer technology. Early consumption figures suggest that our carbon foot print will be reduced by approximately 100 tonnes of CO₂ annually (or 4% of our district's carbon foot).

Another major renovation eliminated inefficient multi-zone air handling unit and replaced with unit ventilators in each classroom.

Our Facilities staff will continue to work with BC Hydro in their Optimization Program at several of our secondary schools

Emissions and Offsets Summary

Board of Education School District No. 91 (Nechako Lakes) GHG Emissions and Offsets for 2014 (tCO₂E)	
GHG Emissions created in calendar year 2014 (from SMARTTool Homepage)	
Total Emissions	3,211
Total Emissions for Offsets	2,357
Adjustments to GHG Emissions Reported in Previous Years (from SMARTTool Homepage)	



Total Emissions	-5
Total Emissions for Offsets	0
Credit owing from PCT at end of 2013 reporting year (if applicable – from May 15 Invoice):	
Credit Owing	0
Total Emissions for Offsets for the 2014 Reporting Year (from Offset Invoice):	2,357

Signature C. Seguin

Date May 15, 2015

Name (please print) Charlene Seguin

Title Superintendent

2014 Greenhouse Gas Emissions

Our greenhouse gas (GHG) emissions for 2014 are as follows:

Scope 1 – Direct Emissions

Mobile Fuel Combustion	1,031 tonnes of CO ₂ e
Mobile Fugitive Emissions *	7 tonnes of CO ₂ e
Stationary Fuel Combustion	2,074 tonnes of CO ₂ e
Stationary Fugitive Emissions *	

Scope 2 – Indirect Emissions

Electricity	48 tonnes of CO ₂ e
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Scope 3 - Office Paper Emissions

Supplies (Paper)	59 tonnes of CO ₂ e
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Scope 4 – Prior Year Adjustment

Stationary Combustion	0 tonnes of CO ₂ e
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* It is estimated that fugitive emissions from cooling do not comprise more than 1.0% of the organization's 3,211 tCO₂e of total emissions and an ongoing effort to collect or estimate emissions from this source would be disproportionately onerous. For this reason, emissions from this source have been deemed out-of-scope and have not been included in our organization's greenhouse gas emission profile.



Offsets Applied to Become Carbon Neutral in 2014

In accordance with regulation and in an effort to become carbon neutral, the Board of Education School District No. 91 (Nechako Lakes) has offset our carbon emissions by disposing of these offsets in the Pacific Carbon Trust equivalent to 2,357 tCO₂.

As required by section 5 of the Carbon Neutral Government Regulation, 848 tCO₂e of emissions resulting from the operation of school buses were reported as part of our greenhouse gas emissions profile in 2014. However, they were not offset as they are out-of-scope under section 4(2)c of the Carbon Neutral Government Regulation.

Changes to Greenhouse Gas Emissions and Offsets Reporting from Previous Years

Not applicable

Overpayments to Pacific Carbon Trust

Not applicable

2014 Carbon Neutral Action Report (CNAR) - ACTIONS

Organization Name

School District No. 91 (Nechako Lakes)

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.


No

Undertook an evaluation of overall building energy use.

Yes

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

*LED Lighting
New HVAC Upgrades
Programming
Optimization Energy
Studies*



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)

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

Yes

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

Replacement vehicles with new technology

3) Supplies (Paper):

Indicate which actions were taken in 2014:

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:

Investigating behavioural opportunities to reduce paper usage

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



Continue optimization studies and subsequent action plans
Continue with LED lighting upgrade

If you wish to list any other "sustainability actions" outside of buildings, fleet, paper and travel check "yes". This reporting is optional.

(No response)

Actions to Promote Sustainability and Conservation - Optional

The following are actions that fall outside the scope of the *Carbon Neutral Government Regulation*, but which many organizations still undertake and may wish to report on. This section is optional for reporting.

Business Travel

Created a low-carbon travel policy or travel reduction goal (Low-carbon: Lowest emission of greenhouse gases per kilometre per passenger)

No

Virtual Meeting Technology

Installed web-conferencing software (e.g., Live Meeting, Elluminate, etc.)

Yes

Made desktop web-cameras available to staff

Yes

Encourage alternative travel to meetings (e.g., bicycles, public transit, walking)

No

Encourage carpooling to meetings

Yes

Education and Awareness

Have created Green, Sustainability, Energy Conservation, or Climate Action Teams.

Yes

Provided resources and/or dedicated staff to support these teams

Yes

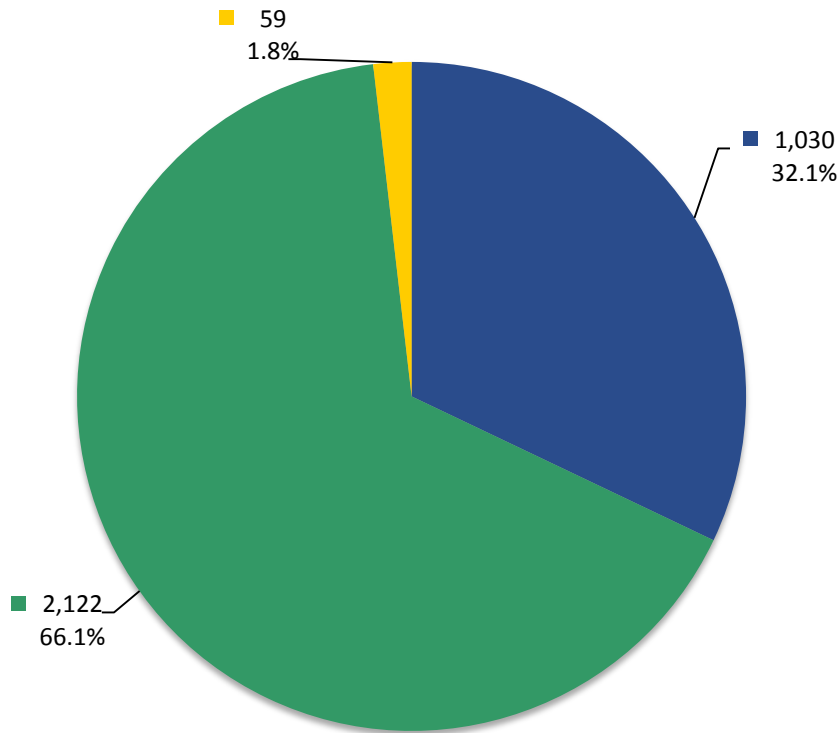
Provided behaviour change education/training for these teams (e.g., community-based social marketing)

yes

Established a sustainability/green awards or recognition program

Yes

**School District 91 - Nechako Lakes
Greenhouse Gas Emissions by Source
for the 2014 Calendar Year (tCO₂e*)**



Total Emissions: 3,211


- 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 3:50 PM)

Total offsets required: **2,358**. Total offset investment: **\$58,950**. Emissions which do not require offsets: **853** **

*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.



Support green professional development (e.g., workshops, conferences, training)

Yes

Planning for Climate Change

Have assessed whether extreme weather events and/or long term changes in climate will affect our organization's business areas

No

Long term changes in climate have been incorporated into our organization's decision making.

No

Actions to Promote Sustainability and Conservation - Optional (continued)

Staff Awareness and Education

Provided education to staff about the science of climate change

No

Provided education to staff about the conservation of water, energy, and raw materials

Yes

Provided green tips on staff website or in newsletters

No

Alternate Work/Commuting Options

Allow for telework/working from home

Yes

Staff have the option of a compressed work week

No

Commuting by foot, bicycle, carpool or public transit is encouraged

Yes


Shower or locker facilities are provided for staff/students who commute by foot or by bicycle

Yes

Secure bicycle storage is provided

No

Other Sustainability Actions



Establish a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models

Yes

Put in place a potable water management strategy to reduce potable water demand of building-level uses such as cooling tower equipment, toilet fixtures, etc. and landscape features

No

Have put in place an operations policy to facilitate the reduction and diversion of building occupant waste from landfills or incineration facilities

Yes

Have implemented a hazardous waste reduction and disposal strategy (Hazardous Waste: E.g., electronics including computer parts and monitors, batteries, paints, fluorescent bulbs)

Yes

Have incorporated minimum recycled content standards into procurement policy for consumable, non-paper supplies (e.g., writing instruments, binders, toner cartridges, etc.)

Yes

Established green standards for goods that are replaced infrequently and/or may require capital funds to purchase (e.g., office furniture, carpeting, etc.)

No

Incorporated lifecycle costing into new construction or renovations

Yes

2014 Carbon Neutral Action Report (CNAR)

- Part 2 ACTIONS

Organization Name

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1) Stationary Fuel Combustion, Electricity (Buildings): Indicate which actions were taken in 2014:

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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:

LED Lighting

New HVAC upgrades

Programming Optimization

Energy Studies

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

Do you have a fleet?

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Please list any other actions taken to reduce emissions from paper use:

(No response)

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Actions Taken to Reduce Emissions - continued

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Continue with LED lighting upgrade

If you wish to list any other "sustainability actions" outside of buildings, fleet, paper and travel check "yes". This reporting is optional.

(No response)

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Actions to Promote Sustainability and Conservation - OptionalThe following are actions that fall outside the scope of the Carbon Neutral Government Regulation, but which many organizations still undertake and may wish to report on. This section is optional for reporting.

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No

Virtual Meeting Technology Installed web-conferencing software (e.g., Live Meeting, Elluminate, etc.)

Yes

Made desktop web-cameras available to staff

Yes

Encourage alternative travel to meetings (e.g., bicycles, public transit, walking)

No

Encourage carpooling to meetings

Yes

Education and Awareness Have created Green, Sustainability, Energy Conservation, or Climate Action Teams.

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Provided resources and/or dedicated staff to support these teams

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Provided behaviour change education/training for these teams (e.g., community-based social marketing)

Yes

Established a sustainability/green awards or recognition program

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Planning for Climate Change Have assessed whether extreme weather events and/or long term changes in climate will affect our organization's business areas

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Actions to Promote Sustainability and Conservation - Optional (continued)

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Yes

Established green standards for goods that are replaced infrequently and/or may require capital funds to purchase (e.g., office furniture, carpeting, etc.)

No

Incorporated lifecycle costing into new construction or renovations

Yes

Please list and other sustainability actions you wish to report not included in the previous list.

(No response)