



**SCHOOL DISTRICT #81
(FORT NELSON)**

**2015 CARBON NEUTRAL
ACTION REPORT**

Art on the cover was prepared for the Earth Day Event “Be an Earth Warrior”

Artwork Included:

“Be an Earth Warrior” by Faith Bilbao

“Hockey Chair” made of recycled hockey sticks by Jayden Piket and Logan Bardgett

“Earth Day Rules” by Tristan Simpson

“A Clean Earth is a Happy Earth” by Isabelle Sheppard

Declaration statement

This Carbon Neutral Action Report for the period January 1st, 2015 to December 31st, 2015 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2015 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2016 and beyond.

By June 30, 2016 School District #81 (Fort Nelson)'s final *Carbon Neutral Action Report* will be posted to our website at www.sd81.bc.ca.

Overview

School District #81 (Fort Nelson) is one of the smallest school districts in British Columbia, with a student population in 2015 of 770 students. Staff and students are located in seven locations. Within the municipality of Fort Nelson we have two primary schools with students from Kindergarten to Grade 4, one middle school with students from Grades 5 to 7, and one high school with students from Grades 8 to 12. As well, we have a maintenance yard and a school board office. In Toad River, two hours north of Fort Nelson, we have a Kindergarten to Grade 12 two-room school, and two teacherages.

Fort Nelson has a resource based economy. Gas and oil related businesses predominate the employment scene. Therefore, when the economy takes a downturn in these areas, as it did in 2015, it affects many families.

Awareness of attempting to reduce our carbon footprint continues to be a focus for the School District. Students, in their individual buildings, are encouraged to be responsible stewards of the earth. Students and staff are encouraged to turn off lights in rooms that they are exiting. Some classrooms have worm composting. One school has a partnership with a local business that takes the school's compostable materials and uses worms to reduce the materials into usable compost that is sold in the local florist shop.

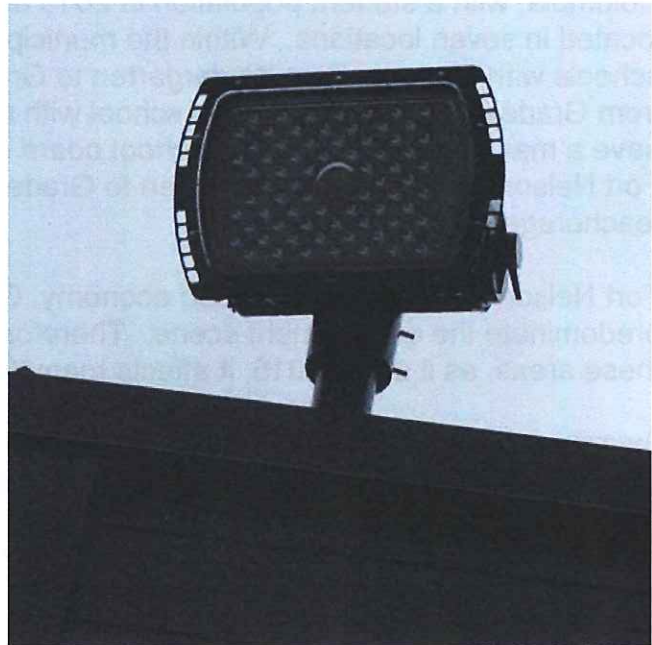
Copier machines are set, district wide, to do double sided copying. Individuals must deliberately set the machine to single sided copying if that is the result they want. Damaged paper or copies made by mistake are kept in bins to be used as scrap paper at all locations. An attempt is made to purchase a high percent of copier paper that has been recycled.

The highlight of the year, with a focus on recycling, is our Annual Earth Day Event hosted by the Green Committee and held at the local theatre. Amazing student work is displayed including posters, videos, animations, photo essays and recycled artwork.

On a larger scale, in 2015 we concentrated on boiler replacements at one school to achieve higher energy savings and more consistent heat production. Six – 55% efficient atmospheric boilers were replaced with 2 – 94% efficient condensing boilers.



Our second focus this year was to continue our highly successful light upgrade program. We extended our attention to the exterior lighting where we installed six LED flood lights at three of our schools. We are extremely pleased with the bright light as well as the 85% energy savings!



As we look forward to 2016 we will continue to use our Energy Reports to identify projects that are manageable within our funding and focus on savings, reduction in emissions, and greater comfort for students and staff alike!

Emissions and Offset Summary Table:

School District #81 (Fort Nelson)	
GHG Emissions and Offset for 2015 (tCO ₂ e)	
GHG Emissions created in Calendar Year 2015	
Total Emissions (tCO ₂ e)	574
Total Offsets (tCO ₂ e)	567
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (tCO ₂ e)	0
Total Offsets (tCO ₂ e)	0
Grand Total Offsets for the 2015 Reporting Year	
Grand Total Offsets (tCO ₂ e)	567

Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, School District #81 (Fort Nelson) (the Organization) is responsible for arranging for the retirement of the offsets obligation reported above for the 2015 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Environment ensuring that these offsets are retired on the Organization's behalf, the Organization will pay the associated invoice to be issued by the Ministry in an amount equal to \$25 per tonne of offsets retired on its behalf plus GST.

Respectfully Submitted on May 31, 2016



Diana Samchuck

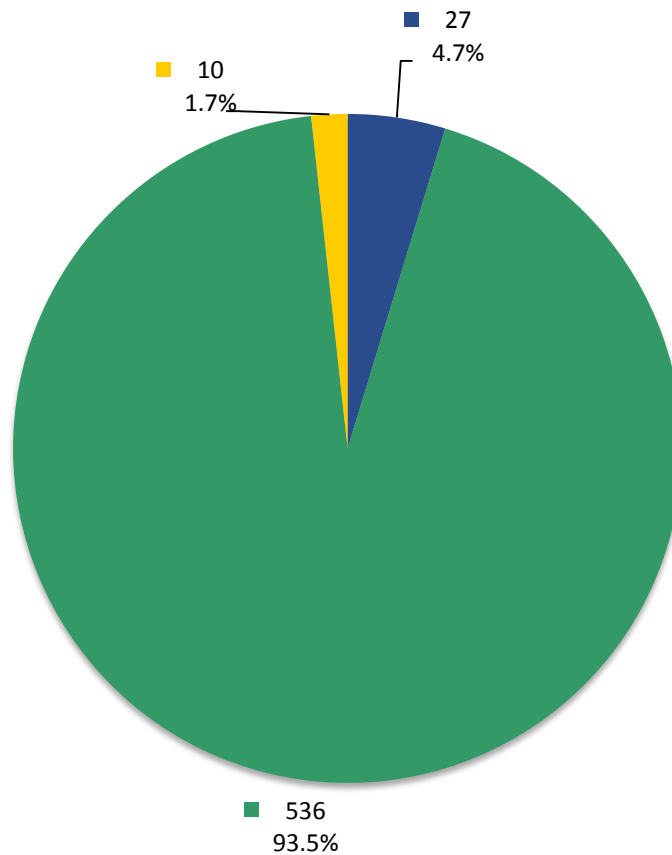
Superintendent of Schools



Margaret-Anne Hall

Secretary-Treasurer

**School District 81 - Fort Nelson
Greenhouse Gas Emissions by Source
for the 2015 Calendar Year (tCO₂e*)**



Total Emissions: 574

- 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 2015 (Generated May 25, 2016 10:26 AM)

Total offsets required: **567**. Total offset investment: **\$14,175**. Emissions which do not require offsets: **6** **

*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.

2015 Carbon Neutral Action Report Survey

Organization Name:

School District #81 (Fort Nelson)

Please select your sector:

- School District

1) Stationary Sources (Buildings, Power Generators, Ext. Lighting) Fuel Combustion, Electricity use, Fugitive Emissions:

Please indicate which actions your PSO took in 2015:

Have developed an overall strategy/plan to reduce energy use in your organization's buildings inventory:

Yes

If Yes, please describe:

We have identified areas of high energy usage through our energy reports. We then have identified specifics ie. light bulb replacement and have worked at the initiative as money is available.

Undertook evaluations of building energy use:

Yes

Performed energy retrofits on existing buildings:

Yes

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

No

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from buildings:

We are fully automated in our heating and ventilation systems at all intown schools. This provides the ability to reduce energy usage when buildings are not in use.

2) Mobile Sources (Fleet, Off-road/Portable Equipment) Fuel Combustion:

Indicate which actions your PSO took in 2015:

Have put in place an operations policy/program to support systematic reductions in fleet related emissions:

(e.g., program to convert fleet to renewable fuels)

No

If Yes, please describe:

(No response)

Replaced existing vehicles with more fuel efficient vehicles (gas/diesel):

No

Replaced existing vehicles with hybrid or electric vehicles:

No

Took steps to drive less than previous years:

No

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from fleet combustion:

(No response)

3) Supplies (Paper):

Indicate which actions your PSO took in 2015:

Have put in place an operations policy/program to facilitate a systematic reduction in paper-related emissions:

(e.g., policy to purchase 100% Recycled Content; default to double-sided printing)

Yes

If yes, please describe:

Our copiers are set to default to double sided printing.

Have put in place an operations policy/program to facilitate behavioural changes from paper use:

(e.g. awareness campaign to reduce paper use):

No

If yes, please describe:

(No response)

Used only 100% recycled paper:

No

Used some recycled paper:

Yes

Used alternate source paper:

(e.g., bamboo, hemp, wheat etc.)

No

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from paper supplies:

(No response)

4) Other Sustainability Actions:

Please note that this section is optional

Business Travel

Created a low-carbon travel policy or travel reduction goal:

(low-carbon = lowest emission of greenhouse gas per kilometer per passenger)

No

Encouraged alternative travel for business:

(e.g. bicycles, public transit, walking)

No

Encouraged or allow telework/working from home:

No

Other:

(No response)

Education Awareness

Have a Green/Sustainability/Climate Action Team:

No

Supported green professional development:

(e.g. workshops, conferences, training)

Yes

Supported or provided education to staff about the science of climate change, conservation of water, energy and/or raw materials:

No

Other:

(No response)

Adaptation Planning for Climate Risks

Have assessed whether increased frequency of extreme weather events and/or long term changes in climate will affect your organization's infrastructure, its employees and/or its clients:

No

Have incorporated these anticipated changes in climate into your organization's planning and decision making:

No

Other:

(No response)

Other Sustainability Actions

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

No

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

(e.g., composting, collection of plastics, batteries)

No

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:

No

Please list any other sustainability actions your organization has taken not listed above:

(No response)