

2014 Carbon Neutral Action Report

This is the 2014 Carbon Neutral Action Report (CNAR) for School District #60 Peace River North. This report contains our emissions profile, offsets purchased, the actions we have taken in 2014 to reduce our greenhouse gas emissions (GHG) and our plans to continue reducing emissions in 2015 and beyond.

Peace River North School District is entering its 14th year of energy reduction and conservation. Plan conception focused primarily on the three 'R's' of reduce, reuse and recycle basing all decisions during this time on mechanical and electrical upgrading. However in last few years the district has also focused on reductions by encouraging personal responsibility obtained from training and mentorship. This district continues to face renovations of aging structures to accommodate increased enrollment due to high economic activity in the north. Our district is currently using all of its classroom space and some areas that were used on an "as needed" basis now are used full time, as well there was an increase in total space. This has resulted in a change in our carbon emission from 3165 TCO₂e in 2013 to 3302 TCO₂e in 2014. The District mandate to be compliance with all governing bodies both in day to day operation and renovations often limit or decrease the amount of reduction that could be obtained. Facility upgrades with a focus on emission reduction continue to be funded through our operating expenditures and the annual facility grant.

2014 UPGRADES

Once again we have provided training for our drivers to reinforce the driving habits that contribute to reduced emissions. This training will be part of our annual awareness sessions.

Building Envelope Upgrades

This past year we have concentrated on replacing older exterior window units, replacing these with sealed units complete with ventilation openers at the top for free summer cooling. The bottom floor of one of our junior secondary schools has been completed and occupants have noticed a marked decrease in cooler drafts during the winter months. A roofing upgrade with additional insulation added increased the R value of the roof.

Mechanical Control Systems

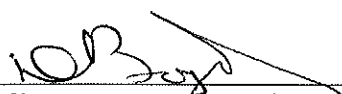
A complete re-commission of the building control system to ensure all the buildings fell within the control strategy was completed. Although there were minor issues with the system overall it performed up to its initial strategies. At the same time we had our technicians work with the re-commissioning staff to refresh and increase their knowledge of the systems. A boiler replacement was also completed along with air handling units installed in classrooms to replace aging furnaces. Three "on demand" hot water tanks were installed replacing large volume storage tanks as there was no need for storage capacity. Some exterior LED lighting was installed as a pilot project to see how the reduced light levels would affect security.

2015 Planned Emission Reduction Activities

Exterior window upgrades will be part of the overall yearly plans using Annual Facility Grant monies. An older rural school will have older wooden siding replaced with insulated metal siding; exterior door units will be replaced in various locations and the exterior LED lighting program will be expanded to all parking lots and main entrance areas. Hot water tank replacement will continue with "on demand" tank installation and "sensor" taps in washrooms. A number of "waterless" urinals have been installed at rural schools resulting in a reduction of water going to storage lagoons and this program will continue.

Emissions and Offset Summary

<i>School District #60 GHG Emissions and Offsets for 2014 (TCO2E)</i>	
GHG Emissions created in Calendar Year 2014	
Total Emissions (TCO2E)	4367
Total Offsets (TCO2E)	3302
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (TCO2E)	0
Total Offsets (TCO2E)	0
Total Emissions for Offset for the 2014 Reporting Year	
Total Offsets (TCO2E)	3302


Signature

May 29/15
Date

Mr. Doug Boyd

Secretary- Treasurer

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

Organization Name

School District #60 Peace River North

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:

re-commissioning of the entire district

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

Yes

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

encourage car pooling

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:

paperless meetings would be the top reduction

Page 3

Actions Taken to Reduce Emissions - continued

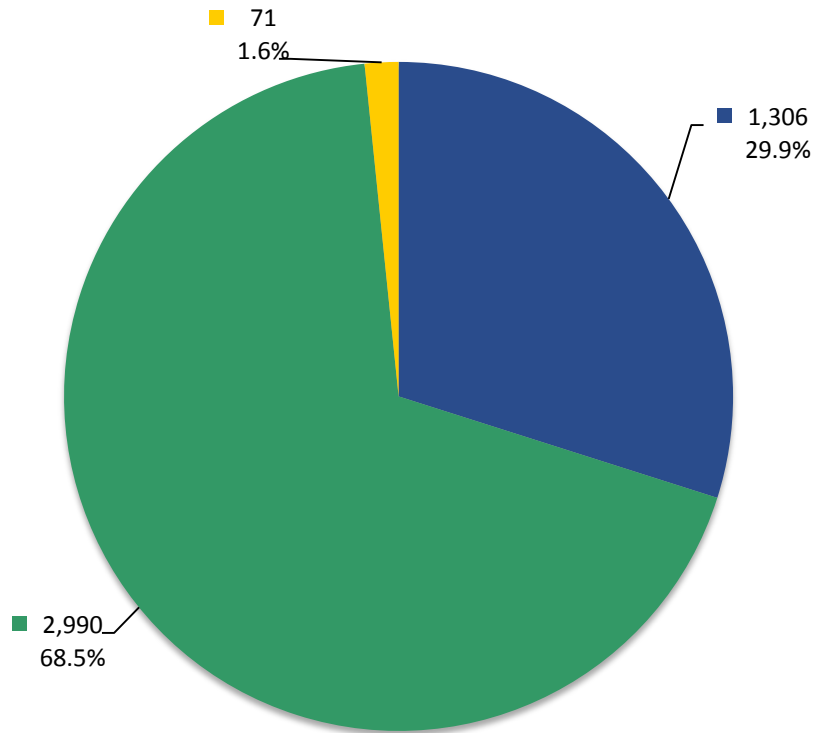
Explain how you plan to continue minimizing emissions in 2015 and future years:

Continued education of users would top the list with mechanical system oversight following. Systems operating according to plan have been checked and certified as correct; further savings would have to come from annual capital projects being approved by the ministry

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 60 - Peace River North (Fort St.John)
Greenhouse Gas Emissions by Source
for the 2014 Calendar Year (tCO₂e*)



Total Emissions: 4,367

- 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 3:05 PM)

Total offsets required: **3,302**. Total offset investment: **\$82,550**. Emissions which do not require offsets: **1,065** **

*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.