



Carbon Neutral Action Report —

School District No. 54 (Bulkley Valley)

2017



2017 CARBON NEUTRAL ACTION REPORT

Declaration Statement:

This Carbon Neutral Action Report for the period of January 1st, 2017 – December 31st, 2017 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2017 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2018 and beyond.

By June 30, 2018, School District 54 (Bulkley Valley) 2017 Carbon Neutral Action Report will be posted on our District website at www.sd54.bc.ca.

Executive Summary:

Nestled in the Bulkley Valley, School District 54 spans 9600 km² of Northwestern BC wilderness. The district has a student population of approximately 2000 students, operates 7 schools as well as maintenance and administrative facilities. The geographic location of the district plays a substantial role in the districts carbon emissions due to unpredictable seasonal factors. Awareness, planning and optimization are all crucial in reducing the districts emissions.

The district remains committed to providing students with tools and learning materials that teach them to reduce their personal carbon footprint. Through active recycling programs, earth day promotion, indoor/outdoor school gardens, paper reduction strategies and implementation of technology students are learning how even small changes can have big impacts on the environment.

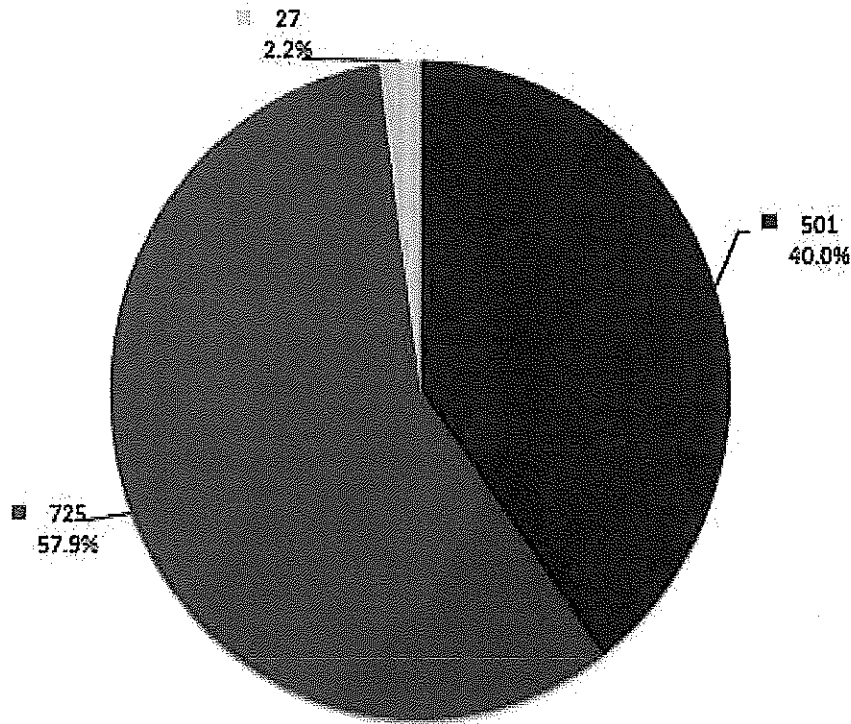
Key 2017 Projects:

1. The district's maintenance department has been implementing a strategy to replace inefficient low-power lighting to high illumination LED lighting. In addition, the strategy aims to reduce the quantity of fixtures and reduce illumination levels in accordance with recommendations from the Illuminating Engineering Society.
2. The district completed Phase 1 of a multi-year HVAC upgrade at one secondary school. Air handling units, control devices and DDC programming we all included in the upgrade.



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School District 54 - Bulkley Valley Greenhouse Gas Emissions by Source for the 2017 Calendar Year (tCO₂e*)



Total Emissions: 1,253

- 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 2017 (Generated May 09, 2018 2:57 PM)

Total offsets required: 862. Total offset investment: \$21,550. Emissions which do not require offsets: 391 **

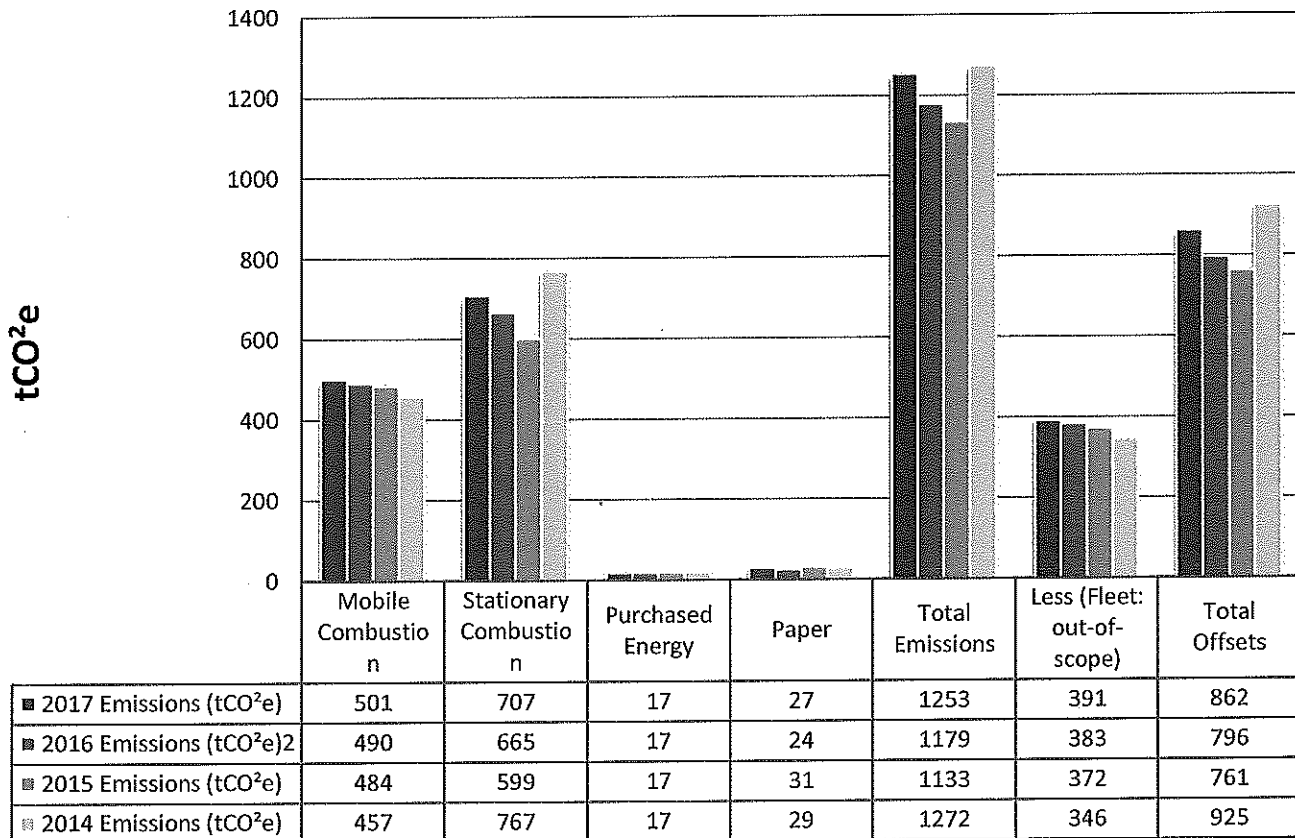
*Tonnes of carbon dioxide equivalent (tCO₂e) is a standard unit of measure in which all types of greenhouse gases are expressed based on their global warming potential relative to carbon dioxide.

** 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.

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Scope	2017 Emissions (tCO ² e)	2016 Emissions (tCO ² e)	2015 Emissions (tCO ² e)	2014 Emissions (tCO ² e)
Mobile Combustion (Fleet)	501	490	484	457
Stationary Combustion	707	665	599	767
Purchased Energy	17	17	17	17
Procurement-Paper	27	24	31	29
Total Emissions	1253	1179	1133	1272
Exempt Offsets	391	383	372	346
Total Offsets	862	796	761	925

2014-2017 Emissions Comparison





2017 CARBON NEUTRAL ACTION REPORT

Offsets Applied to become Carbon Neutral in 2017

Total Offsets required: 862 Total Offset Investments \$21500.00 Emissions which do not require offsets: 391

**Tonnes of Carbon dioxide equivalent (tCO₂e) is a standard measure 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 eGreenhouse 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.**

Emissions and Offset Summary Table

School District 54 (Bulkley Valley) GHG Emissions and Offset for 2017 (TCO₂E)	
GHG Emissions created in Calendar Year 2017	
Total Emissions (tCO ₂ e)	1253
Total Offsets (tCO ₂ e)	862
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)	862



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Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, School District 54 (Bulkley Valley) is responsible for arranging for the retirement of the offsets obligation reported above for the 2017 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy 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.

On behalf of School District 54 (Bulkley Valley)

May 14, 2018

Jennifer Williams

Chairperson

Dave Margerm

Secretary Treasurer

Part 1: CNAR Survey

1. General Information

Name: Darcie Frocklage

Contact Email: darcie.frocklage@sd54.bc.ca

Organization Name: School District No. 54 (Bulkley Valley)

Sector: School District

2. Stationary Sources (eg. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

During 2017, did your organization take any of the following actions to support emissions reductions from buildings? (please select all that apply)

Performed energy retrofits of the organization's building(s)

If you selected "*Performed energy retrofits of the organization's building(s)*":

How many buildings were retrofitted?: 1

If you selected "*Built, or are building new LEED Gold or other "Green" buildings*":

How many new "Green" buildings?:

Did your Organization perform any retrofits during 2017? Please describe briefly:

Changed HVAC system in one highschool

2a. Stationary Sources (eg. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

Please briefly describe your organization's plans to continue reducing emissions from its stationary sources:

a) Over the next 1-5 years

Continue HVAC upgrades / upgrade to high illumination lightening and reduce the quantity of light fixtures.

b) Over the following 6-10 years

Develop a strong strategic plan that reflects realistic goals based on the districts geographical location and distances to outlining facilities.

3. Mobile Sources (Vehicles, Off-road/portable Equipment): Fuel Combustion:

During 2017, did your organization take any of the following actions to support emission reductions from its mobile sources? (please select all that apply)

Took steps to drive less than previous years

If you selected "*Replaced existing vehicles with more fuel efficient vehicles (gas/diesel)*":

How many vehicles?:

If you selected "*Replaced existing vehicles with hybrid or electric vehicles*":

How many vehicles?:

3a. Mobile Sources (Vehicles, Off-road/portable Equipment): Fuel Combustion:

Please briefly describe your organization's plans to continue reducing emissions from its mobile sources:

a) Over the next 1-5 years

Encourage carpooling to remote school locations and continually monitor bus routes to improve efficiency.

b) Over the following 6-10 years

4. Supplies (Paper): Indicate which actions your PSO took in 2017:

During 2017, did your organization take any of the following actions to support emissions reductions from paper supplies? (please select all the apply)

Had a policy requiring the purchase of recycled content paper

If you selected "*Had a policy requiring the purchase of recycled content paper*":

State the required recycled content here (30%, 50%, 100%): 30

If you selected "*Had a policy requiring the purchase of alternate source paper (bamboo, hemp, wheat, etc)*", which type of alternate source paper did you use?

Please briefly describe your organization's plans to continue reducing emissions associated with its office paper use in future years.

Staff and students are encouraged to only print necessary documents or "final" copies when required. Students are also encouraged to send digital work to teachers electronically which eliminates the use of paper all together.

Parents of senior students in the district no longer receive paper copies of report cards as all thier students information can be accessed via a secure portal.

5. Other Sustainability Actions

a) Business Travel

During 2017, did your organization take any of the following actions to support emissions reductions from business travel? (please select all that apply)

None of the above

b) Education/Awareness

During 2017, did your organization have any of the following programs or initiatives to support sustainability education and awareness? (please select all that apply)

None of the above

c) Other Sustainability Actions

During 2017, did your organization have any of the following programs or initiatives to support sustainability? (please select all that apply)

None of the above