

## 2015 Carbon Neutral Action Report

**Organization name:** *School District No. 5 (Southeast Kootenay)*

**Declaration statement:** This Carbon Neutral Action Report for the period January 1<sup>st</sup>, 2015 to December 31<sup>st</sup>, 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 No. 5 (Southeast Kootenay)* final *Carbon Neutral Action Report* will be posted to our website at [www.sd5.bc.ca](http://www.sd5.bc.ca).

**Overview:** School District No. 5 has continued to work towards reducing emissions this year in transportation, technology, electrical, HVAC, and other school systems. As you will read, we have been working towards our goal of carbon neutrality. All of our departments are now in the mind set of reducing unnecessary emissions where they can; this is from removing inefficient printers to purchasing energy saving appliances. I believe our goal of working with staff and students to become more energy wise has paid off and will continue to pay off in the years to come. Some examples of what we have achieved this year are listed below.

**Transportation:** We have replaced older buses with newer ones. When replacing our maintenance vehicles we always look for the most energy efficient units that will work for our team.

**Technology:** Our tech plan has now been completed and we have removed older servers and computers from all the schools in the district. We have now placed one server in each school that takes the place of three. We have also reduced the number of computers in our district and continue to use power save mode and educated the staff to reduce energy. With the new tech system in place we have reduced tech travel throughout the district. We are now getting plans in place to further reduce our footprint by looking into Cloud based technology.

**Electrical:** Later this summer we will be having an Electrical engineer doing a study of our district, look into replacing inefficient lighting with LED technology. Once completed we will put a plan in place to move forward with the results of the study.

**HVAC:** Our HVAC people have continued replacing old and less efficient furnaces in a number of our schools. Our district has now moved all our HVAC controls to the Web, thus reducing travel time and saving fuel. This August we applied for and received extra money to replace older units with more efficient in a number of our schools.

Pinewood Elementary School – Remove two RTUs and replace with one RTU.

Mount Baker Senior Secondary School – Remove eight older boilers and replace with two condensing boilers.

Steeles Elementary School – Remove two older RTU and replace with two more efficient ones.

Laurie Middle School – Remove two RTUs and replace with two more efficient ones.

Amy Woodland Elementary School – Remove 5 older Furnaces and 2 condensing units and replace with more energy efficient ones.

**LMS School:** Last winter we had fire damage in our one of our Middle School in Cranbrook. This allowed us to better insulate the school in the attic space above the gym and change out all the lighting with newer more efficient lighting in the two offices and change rooms.

In conclusion School District No.5 is working to reduce our use of energy and save resources where possible. We are hoping in the future to become more energy efficient and reduce our consumption even more.

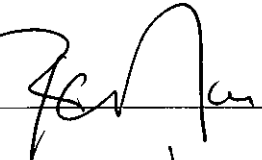
**Emissions and Offset Summary Table:**

<i>School District No. 5 (Southeast Kootenay) GHG Emissions and Offset for 2015 (TCO<sub>2</sub>E)</i>	
<b>GHG Emissions created in Calendar Year 2015:</b>	
Total Emissions (tCO <sub>2</sub> e)	2,832
Total Offsets (tCO <sub>2</sub> e)	595
<b>Adjustments to GHG Emissions Reported in Prior Years:</b>	
Total Emissions (tCO <sub>2</sub> e)	0
Total Offsets (tCO <sub>2</sub> e)	0
<b>Grand Total Offsets for the 2015 Reporting Year</b>	
Grand Total Offsets (tCO <sub>2</sub> e)	2,236

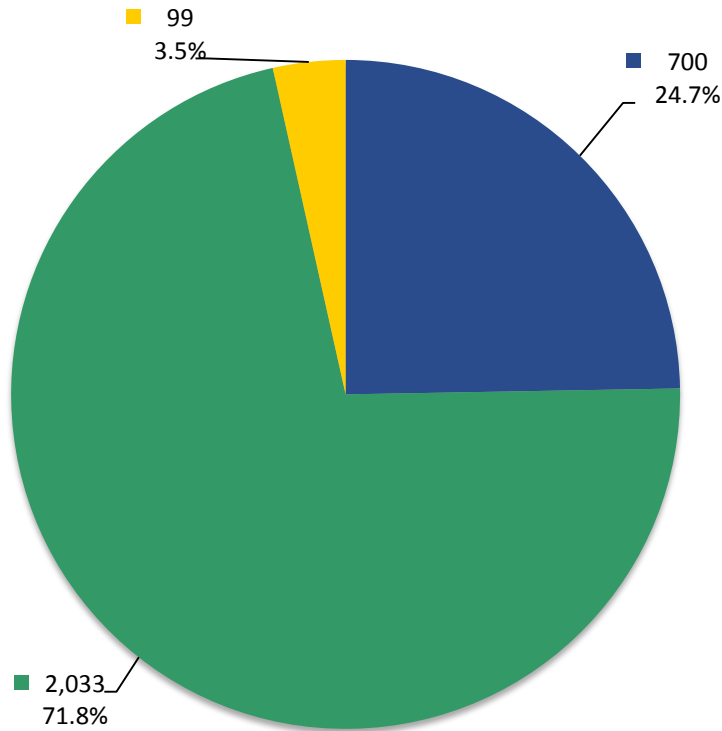
**Retirement of Offsets:**

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, *School District No. 5 (Southeast Kootenay)* (**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 within 30 days, 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.

Executive sign-off:

Signature  Date May 31, 2016  
Name (please print) Robert G Norum Title Secretary Treasurer

**School District 05 - Southeast Kootenay  
Greenhouse Gas Emissions by Source  
for the 2015 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 2,832**

- 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 9:46 AM)**

Total offsets required: **2,236**. Total offset investment: **\$55,900**. Emissions which do not require offsets: **595** \*\*

\*Tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) 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 No. 5 (Southeast Kootenay)*

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:

*Every year we have consultants recommend actions to our district to reduce our energy costs. This would include lighting and HVAC mostly.*

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 have replaced older roof top units with more energy efficient ones, We are having all of our interior and exterior lighting review to see where we can replace older lighting technology with LED.*

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):

Yes

Replaced existing vehicles with hybrid or electric vehicles:

No

Took steps to drive less than previous years:

Yes

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

*We have reduced the amount of time tech staff travel by have remote services on computers setup.  
We hired a grounds person in Fernie so our grounds staff do not have to travel there as much.*

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)

No

If yes, please describe:

(No response)

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

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

*Yes*

If yes, please describe:

*We have reduced the amount of printers we have in the district and are continuing to reduce every change we can.*

Used only 100% recycled paper:

*Yes*

Used some recycled paper:

*No*

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 response)*

Encouraged alternative travel for business:

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

*(No response)*

Encouraged or allow telework/working from home:

*(No response)*

Other:

*(No response)*

Education Awareness

Have a Green/Sustainability/Climate Action Team:

*(No response)*

Supported green professional development:

(e.g. workshops, conferences, training)

*(No response)*

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

*(No response)*

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 response)*

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

*(No response)*

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 response)*

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 response)*

Established green standards for goods that are replaced infrequently and/or may require capital funds to purchase:

(e.g., office furniture, carpeting, etc.)

*(No response)*

Incorporated lifecycle costing into new construction or renovations:

*(No response)*

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

*(No response)*