

Declaration Statement

This is the 2014 Carbon Neutral Action Report for School District No. 20 Kootenay Columbia. This Carbon Neutral Action Report summarizes our emissions profile, the amount of offsets purchased to reach net zero emissions and the actions we have taken to reduce our greenhouse gas emissions. As well, it contains a list of potential future options that may help us reduce Greenhouse gas emissions in the future.

OVERVIEW

Emission Reduction Activities

The following is a list of actions taken toward carbon neutrality in 2014:

- Continued to install occupancy sensors in several rooms throughout the District.
- Continued to replace incandescent bulbs with CFL bulbs as they burn out.
- Continued to utilize power management software which shuts down computers outside of regular business hours.
- Continued to use server virtualization.
- Continued to use auto-sleep settings on computer monitors and CPUs.
- Continued to remove stand-alone printers, copiers, and/or fax machines and install multi-function devices.
- Continued to utilize auto-sleep settings on printers, copiers, fax machines, and/or multi-function devices.
- Continued to replace computers with ENERGY STAR models during regular computer upgrades.
- Continued to replace appliances with ENERGY STAR models whenever new appliances are purchased.
- Continued to purchase paper with recycled content.
- Continued reducing number of vehicles in fleet
- Continued to replace vehicles in fleet with more efficient vehicles.
- Smart Driver training completed for all bus drivers.
- Continued to review and reduce number of kms driven on bus routes.
- Continued to review and streamline travel for Operations Staff.
- Reviewing current Accounts Payable processes and investigating possibility of incorporating a more digital process to create efficiencies in both use of paper, time and information retrieval.
- Reduction of interschool mail delivery from three times per week to one time per week (encourage use of digital rather than paper)
- Implementation of computer lab replacement with laptops rather than desktops.

Future Plans for the continual reduction of Greenhouse Gas Emissions

We have completed a study of all our mechanical systems and have developed a plan for replacement of older, less efficient mechanical systems throughout our District. We are planning to use both AFG funds and hope to have some influx of CNCP funding as well to help with the massive costs of these upgrades.

In 2014, we received CNCP funding for an upgrade to the mechanical system at Rossland Summit School. The awarding of this grant is our greatest success story for 2014 and we are looking forward to the energy savings and overall reduction of Greenhouse gases for that building.

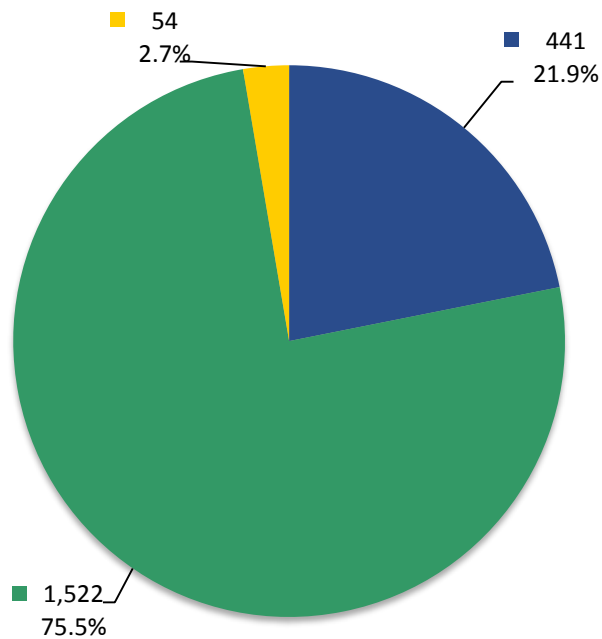
Other potential projects that continue to be considered within the buildings in our District include window replacements, re-commissioning and rebalancing of newer mechanical systems, upgrades to DDC controls and the addition of CO2 sensors.

We will continue with all the smaller upgrades and changes as listed above in our actions as well as every small bit helps move the District toward carbon neutrality.

Emissions and Offsets Summary Table

School District No. 20 (Kootenay Columbia) Greenhouse Gas Emissions and Offsets for 2014 (TCO ₂ E)	
Greenhouse Gas Emissions in calendar year 2014:	
Total Emissions	2016
Total Offsets	1628
Adjustments to GHG Emissions Reported in Previous Years:	
Total Emissions	-2
Total Offsets	0
Total Emissions for Offsets for the 2014 Reporting Year:	
Total Offsets	1628

School District 20 - Kootenay-Columbia Greenhouse Gas Emissions by Source for the 2014 Calendar Year (tCO₂e*)



Total Emissions: 2,016

- 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 May 11, 2015 12:37 PM)

Total offsets required: **1,628**. Total offset investment: **\$40,700**. Emissions which do not require offsets:

*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



2014 CNAR prepared by Director of Operations, Heather Simm



2014 CNAR approved by Superintendent, Greg Luterbach

2014 Carbon Neutral Action Report (CNAR)

- Part 2 ACTIONS

Organization Name

School District No. 20-Kootenay Columbia

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.

No

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

- Upgraded mechanical system at Rossland Secondary School (Boiler replacement with CNCP dollars)
- Continued to install occupancy sensors in several rooms throughout the District.
- Continued to replace incandescent bulbs with CFL bulbs as they burn out.
- Continued to utilize power management software which shuts down computers outside of regular business hours.
- Continued to use server virtualization.
- Continued to use auto-sleep settings on computer monitors and CPUs.
- Continued to remove stand-alone printers, copiers, and/or fax machines and install multi-function devices.

- Continued to utilize auto-sleep settings on printers, copiers, fax machines, and/or multi-function devices.
- Continued to replace computers with ENERGY STAR models during regular computer upgrades.
- Continued to replace appliances with ENERGY STAR models whenever new appliances are purchased.
- Implementation of computer lab replacement with laptops rather than desktops.

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:

- Performed regular fleet maintenance to improve fuel-efficiency
- Continued to replace vehicles in fleet with more efficient vehicles.
- Smart Driver training completed for all bus drivers.
- Continued to review and reduce number of kms driven on bus routes.

- Continued to review and streamline travel for Operations Staff.
- Reduction of interschool mail delivery from three times per week to one time per week (encourage use of digital rather than paper)

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:

- Networked printers all switched to default for double-sided printing
- Moving toward reduction in mail run (emphasis on digital delivery)
- Review of Accounts payable processes to see if we can reduce paper usage
- Continued to purchase paper with recycled content.

Actions Taken to Reduce Emissions - continued

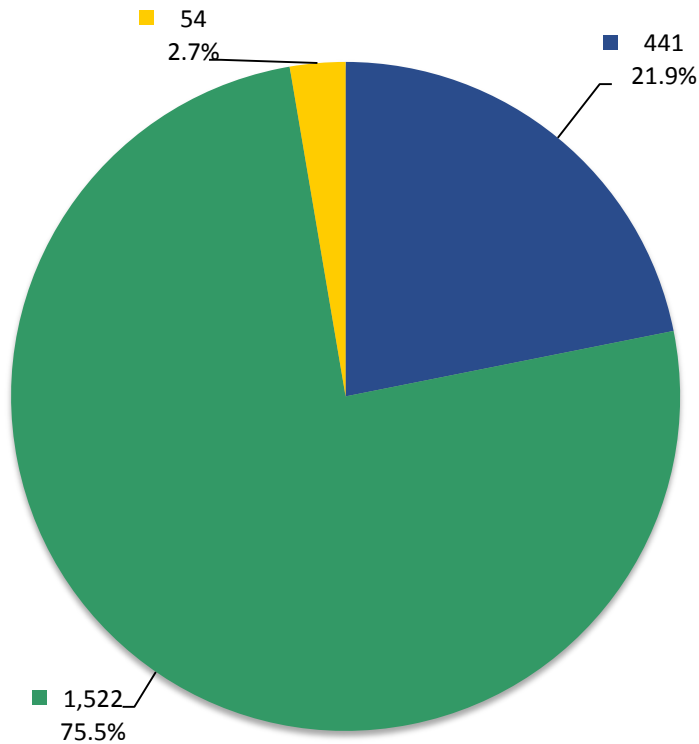
Explain how you plan to continue minimizing emissions in 2015 and future years:

- Use AFG dollars to complete mechanical upgrade at Fruitvale Elementary School
- Continue to reduce number of vehicles in fleet
- Continue to replace vehicles in fleet with more efficient vehicles
- Continue to review and streamline travel for Operations Staff
- Continue to review and reduce number of kms driven on bus routes

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 20 - Kootenay-Columbia Greenhouse Gas Emissions by Source for the 2014 Calendar Year (tCO₂e*)



Total Emissions: 2,016

- 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 25, 2015 10:51 AM)

Total offsets required: **1,628**. Total offset investment: **\$40,700**. Emissions which do not require offsets: **388** **

*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.