

School District #73 (Kamloops-Thompson) - 2014 Carbon Neutral Action Report Overview

Executive Summary

- School District #73 (Kamloops/Thompson) has been working to reduce greenhouse gas emissions and to reduce utility consumption in general. Average annual savings of over 5,500,000kwhr of electricity and 20,000GJ of natural gas have been achieved, with resulting utility cost savings of over \$600,000+ per year and greenhouse gas reductions of over 1,500,000kg of CO₂ per year.

Karl deBruijn
Superintendent



2014 Greenhouse Gas Emissions

- Greenhouse Gas Emissions for the 2014 Calendar Year (tCO₂e)
 - 5769

Offsets Applied to Become Carbon Neutral in 2014

- Total offsets purchased: 4697 (4,246 for 2014 and 451 for 2013)
- Total offset investment: \$117,425 + GST
- Emissions which do not require offsets: 1523

2014 Greenhouse Gas Emissions Reductions Activities

- Replaced 9 buses and 18 vehicles with newer models
- Completed one boiler retrofit, and replaced mechanical system at one school
- Replaced 150 CRT computer monitors with LED monitors

Plans to Continue Reducing Greenhouse Gas Emissions 2014 – 2014

- School District #73 (Kamloops/Thompson) will continue with its long term plan for energy reduction. We will continue with upgrades to the following systems to further reduce our energy consumption:
 - controls for mechanical systems, as well as upgrades to the mechanical systems including boilers
 - interior lights and exterior lights to LED
 - computer systems
- The school district will be using GPS data to reduce idling times of vehicles.
- Schools will continue with the BC Hydro Workplace Conservation program

Changes to Greenhouse Gas Emissions & Offsets Reporting from Previous Years

- School District #73 (Kamloops/Thompson) has paid for 451 tonnes of emissions that were not paid for in 2013.

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

Organization Name

School District No. 73(Kamloops/Thompson)

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:

Completed one boiler retrofit.

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

No

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

(No response)

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:

(No response)

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Actions Taken to Reduce Emissions - continued

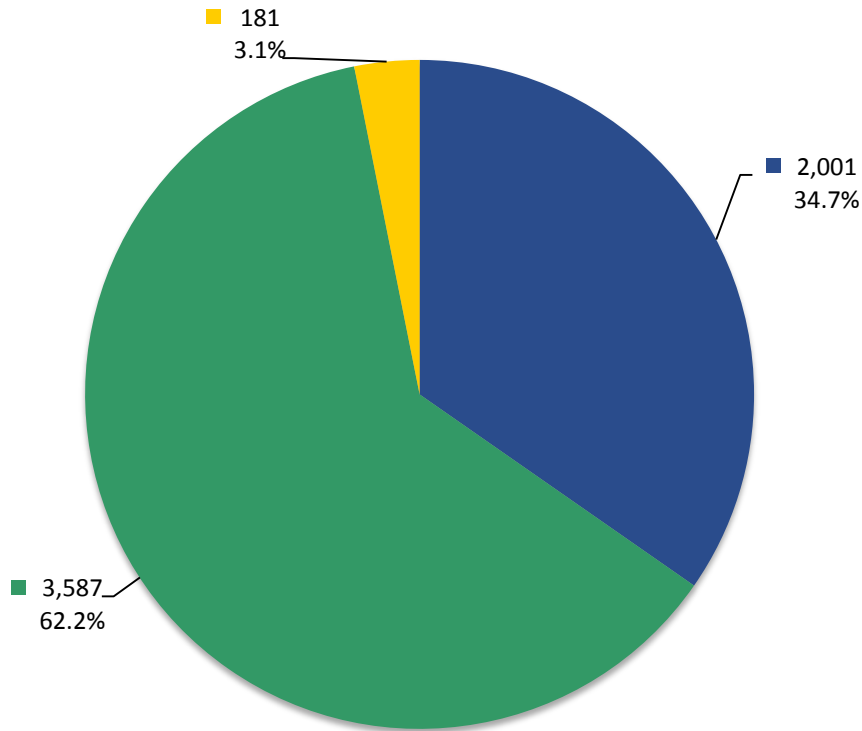
Explain how you plan to continue minimizing emissions in 2015 and future years:

We continue to upgrade IT equipment. We will complete boiler retrofits if the funding is available.

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 73 - Kamloops / Thompson
Greenhouse Gas Emissions by Source
for the 2014 Calendar Year (tCO₂e*)**



Total Emissions: 5,769

- 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 3:27 PM)

Total offsets required: **4,246**. Total offset investment: **\$106,150**. Emissions which do not require offsets: **1,523** **

*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.