

School District #73 (Kamloops-Thompson) - 2015 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



2015 Greenhouse Gas Emissions

- Greenhouse Gas Emissions for the 2015 Calendar Year (tCO₂e)
 - 5464

Offsets Applied to Become Carbon Neutral in 2015

- Total offsets purchased: 4257 (3853 for 2015 and 404 for 2014)
- Total offset investment: \$106,425.00 + GST
- Emissions which do not require offsets: 1611

2015 Greenhouse Gas Emissions Reductions Activities

- Replaced 4 vehicles with newer models
- Replaced the mechanical systems controls in 4 schools
- Replaced gym lighting in 6 schools with LED lighting

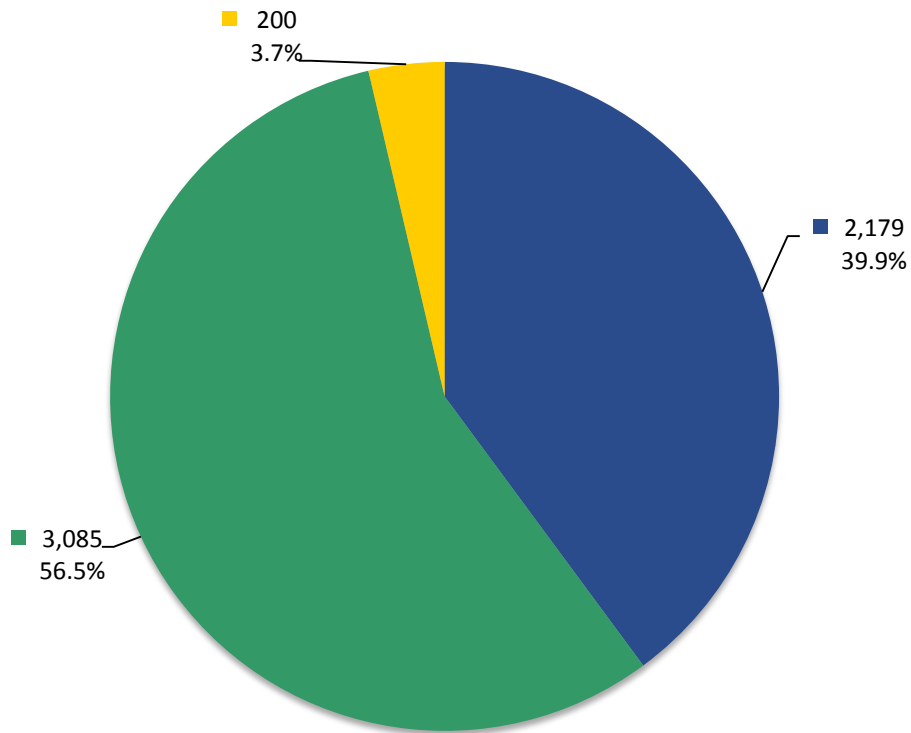
Plans to Continue Reducing Greenhouse Gas Emissions 2016

- 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

Changes to Greenhouse Gas Emissions & Offsets Reporting from Previous Years

- School District #73 (Kamloops/Thompson) has paid for 404 tonnes of emissions that were not paid for in 2014.

**School District 73 - Kamloops / Thompson
Greenhouse Gas Emissions by Source
for the 2015 Calendar Year (tCO₂e*)**



Total Emissions: 5,464

- 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 10:21 AM)

Total offsets required: **3,853**. Total offset investment: **\$96,325**. Emissions which do not require offsets: **1,611** **

*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.

2015 Carbon Neutral Action Report Survey

Organization Name:

School District No.73(Kamloops/Thompson)

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:

The School District has had a long term plan in place for many years which has included upgrading mechanical and electrical systems.

Undertook evaluations of building energy use:

No

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:

The School District has completed one boiler retrofit, 2 dimmable LED lighting upgrades, and upgraded mechanical control systems at 4 buildings.

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)

Yes

If Yes, please describe:

When replacing vehicles, "right sizing" of more fuel efficient vehicles is implemented.

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:

No

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

(No response)

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:

Buying more recycled content paper

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

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

No

If yes, please describe:

(No response)

Used only 100% recycled paper:

No

Used some recycled paper:

Yes

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

Encouraged alternative travel for business:

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

No

Encouraged or allow telework/working from home:

No

Other:

(No response)

Education Awareness

Have a Green/Sustainability/Climate Action Team:

No

Supported green professional development:

(e.g. workshops, conferences, training)

Yes

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

Yes

Other:

The BC Hydro Conservation Awareness program was run in many of our schools and support facilities.

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

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

No

Other:

(No response)

Other Sustainability Actions

Established a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models:

Yes

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)

Yes

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

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

No

Incorporated lifecycle costing into new construction or renovations:

Yes

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

(No response)