

2015 Carbon Neutral Action Report



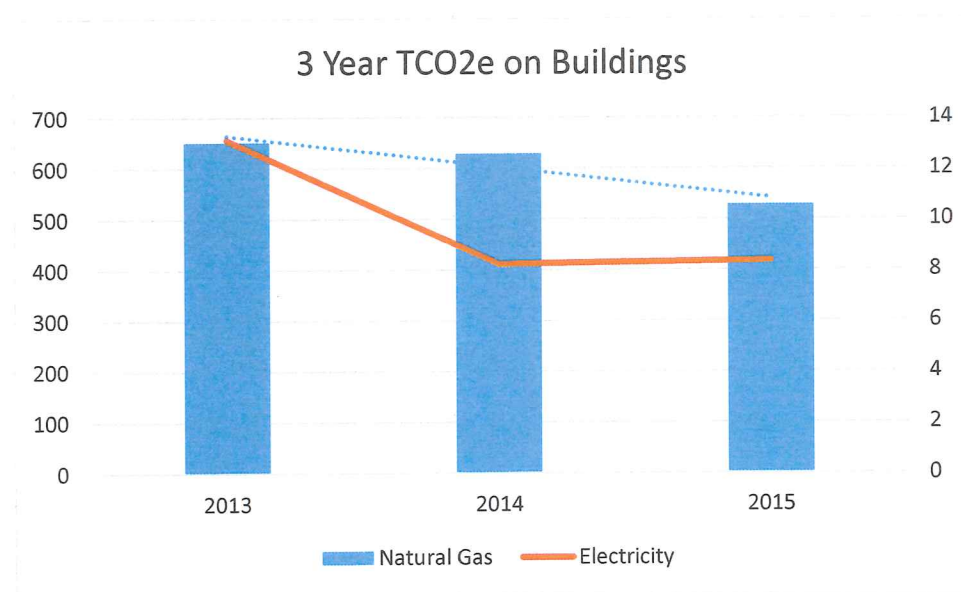
School District No. 53 (Okanagan Similkameen)

Declaration statement: This *Carbon Neutral Action Report* for the period January 1st to December 31st, 2015 summarizes the district's emissions profile, the amount of offsets purchased to reach net zero emissions, the actions taken in 2015 to reduce greenhouse gas emissions, and plans to continue reducing emissions in 2016 and into the future.

By June 30, School District No. 53's final *Carbon Neutral Action Report* will be posted to the district website at www.sd53.bc.ca.

Overview:

Reductions in Greenhouse Gas Emissions have been achieved again this year. Buildings Natural Gas has reduced by 19% while electrical has decreased by 36% since 2013. While the district has made improvements, it is anticipated greater reductions will be achieved in future years.



The district's newest school, Southern Okanagan Secondary, with new energy technologies of wind, solar and geothermal, is now starting to perform at its full potential. In 2015, the district focused on fine tuning systems to achieve improved performance. The district's older schools require upgrades but as they are addressed, greater efficiencies will be achieved.

Emissions and Offsets Summary Table:

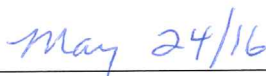
School District #53 GHG Emissions and Offsets for 2014 (TCO2E)	
GHG Emissions created in Calendar Year 2014	
Total Emissions (TCO2E)	827
Total Offsets (TCO2E)	620
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (TCO2E)	10
Total Offsets (TCO2E)	10
Total Emissions for Offset for the 2014 Reporting Year	
Total Offsets (TCO2E)	630

Retirement of Offsets:

In accordance with the requirements of the *Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation*, School District #53 (Okanagan Similkameen) 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 School District hereby agrees that, in exchange for the Ministry of Environment ensuring that these offsets are retired on the School District's behalf, the School District 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.

Executive sign-off:

Signature



Date

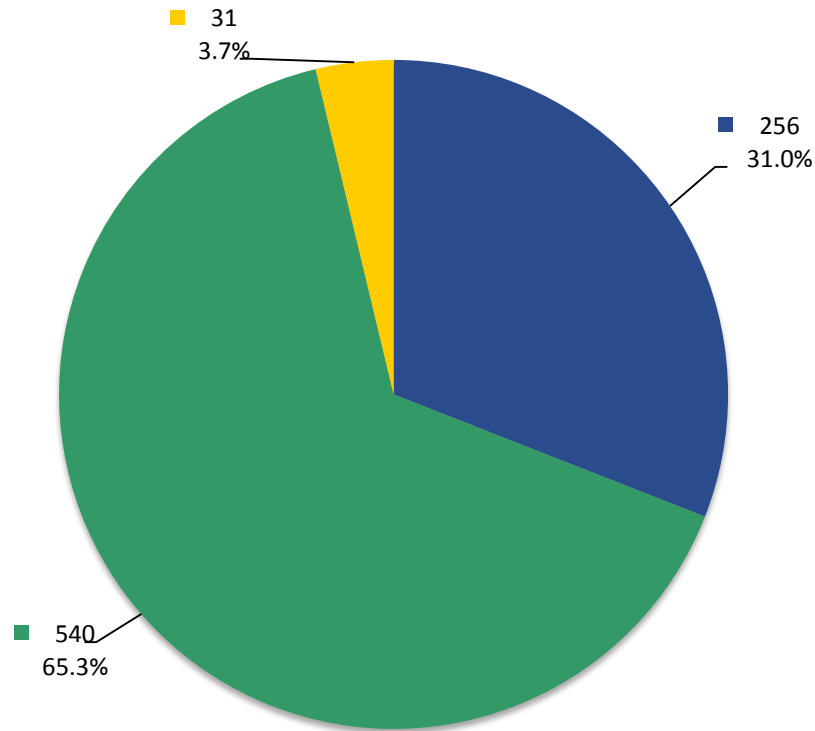


Name (please print)



Title

**School District 53 - Okanagan Similkameen
Greenhouse Gas Emissions by Source
for the 2015 Calendar Year (tCO₂e*)**



Total Emissions: 827

- 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 10:10 AM)

Total offsets required: **620**. Total offset investment: **\$15,500**. Emissions which do not require offsets: **206** **

*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:

SD#53 Okanagan Similkameen

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:

It is a multi-stage program to find efficiencies: We have done:

T8 lighting District wide

DDC controls upgrade District wide for better control on energy consumption

Mechanical system upgrades as we are able - dependent on funding

Submission for Exterior light upgrade to LED

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:

(No response)

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:

No

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

Encourage web sessions to limit driving

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)

Yes

If yes, please describe:

Default to double sided printing

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:

Use of some recycled paper

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:

Encouraging less printing of all correspondence sent by First Class email

Leave management system is online and paperless

Board agenda have paperless software

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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:

Encourage car pooling when possible.

Where possible web meetings are utilized but difficult to do in a school environment

Education Awareness

Have a Green/Sustainability/Climate Action Team:

No

Supported green professional development:

(e.g. workshops, conferences, training)

No

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

No

Other:

Encourage teleconferences rather than face to face meetings.

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:

No

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

To be sustainable while working with declining enrolment has meant amalgamation of schools. our district has placed its focus and energy on providing the best learning environment while maintaining sustainability.