



CNAR OVERVIEW

2016 Carbon Neutral Action Report

Organization name: School District #78 (Fraser-Cascade)

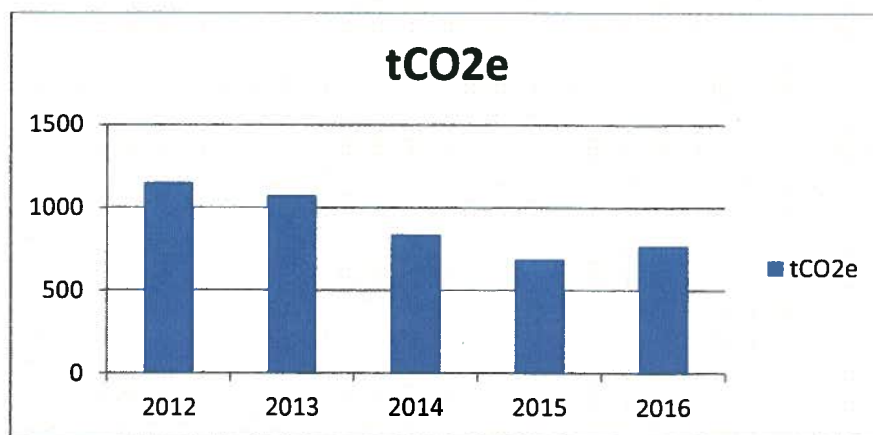
Declaration statement: This Carbon Neutral Action Report for the period January 1st, 2016 to December 31st, 2016 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2016 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2017 and beyond.

By June 30, 2017 School District #78 (Fraser-Cascade) final *Carbon Neutral Action Report* will be posted to our website at www.sd78.bc.ca.

Overview:

School District No. 78 (Fraser Cascade) is consistently working to reduce our energy emissions through our continued focus on building improvements, and trying to change mindsets to become energy conscious in our day to day activities. Last year the District saw the first full year of our addition at Coquihalla Elementary School. We also undertook some major capital projects which accounts for the small increase in our emissions output this year. We are on track for further reductions, however, with the many projects we undertook this year and will be undertaking in the upcoming year. The District upgraded the boilers at Boston Bar Elementary Secondary School, and is in the process of doing the same at the Board office. We have also just finished off the full replacement of the heating and ventilation system at Kent Elementary School. Starting this summer we will be undertaking a domestic hot water upgrade at the Board office, upgrading the heating system at Agassiz Elementary Secondary School as well as putting in LED lighting at Coquihalla Elementary School and Hope Secondary School. We will also be continuing with our program to replace stand- alone heating and domestic hot water equipment with high efficiency condensing type equipment.

Since 2011, the District has seen an overall reduction in tCO₂ emissions of 33%. We anticipate that even with the additional space we are building at Kent Elementary this year that we will see a further reduction in our energy consumption for 2017. Our expectation is a 20% reduction in natural gas and a 30% reduction in electrical usage.




Emissions and Offset Summary Table:

School District # 78 (Fraser-Cascade) GHG Emissions and Offset for 2016 (tCO₂e)	
GHG Emissions created in Calendar Year 2016:	
Total Emissions (tCO ₂ e)	985
Total Offsets (tCO ₂ e)	770
Adjustments to GHG Emissions Reported in Prior Years:	
Total Emissions (tCO ₂ e)	0
Total Offsets (tCO ₂ e)	0
Grand Total Offsets for the 2016 Reporting Year	
Grand Total Offsets (tCO ₂ e)	770

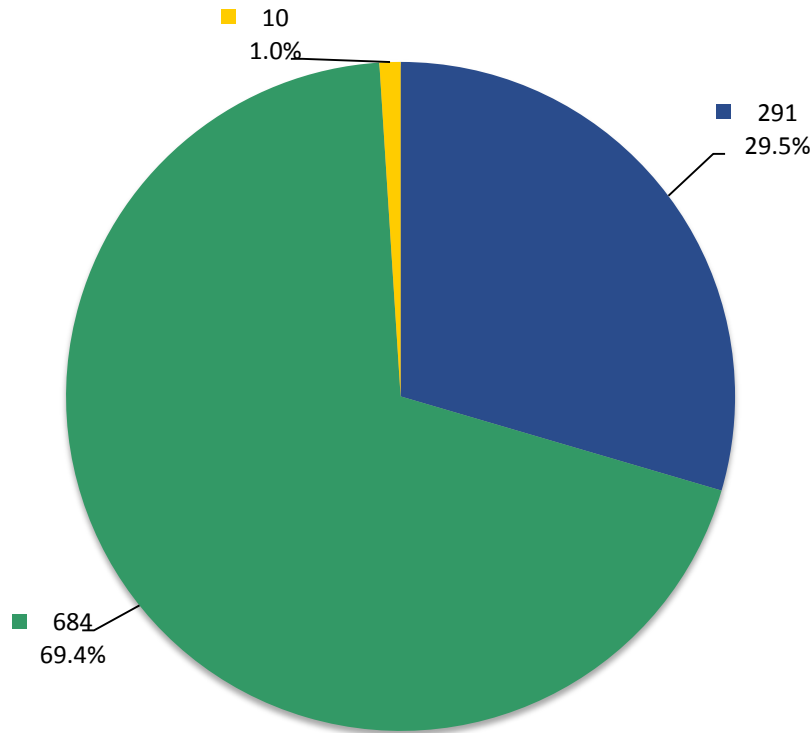
Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, *School District #78 (Fraser-Cascade)* (the **Organization**) is responsible for arranging for the retirement of the offsets obligation reported above for the 2016 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	May 30, 2017 _____ Date
NATALIE LOWE _____ Name (please print)	SECRETARY - TREASURER _____ Title

**School District 78 - Fraser - Cascade
Greenhouse Gas Emissions by Source
for the 2016 Calendar Year (tCO₂e*)**



Total Emissions: 985

- 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 2016 (Generated May 15, 2017 3:44 PM)

Total offsets required: 770. Total offset investment: \$19,250. Emissions which do not require offsets: 215 **

*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.

2016 Carbon Neutral Action Report Survey

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Part One (external)

Contact Name(s):

Doug Templeton

Organization Name:

School District #78 Fraser Cascade

Please select your sector:

- School District

1) Stationary Sources (Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

During 2016, did your organization take any of the following actions to support emissions reductions from buildings?

Select all that apply

- Performed energy retrofits of the organization's buildings.: If yes, how many buildings?two
- Other actions? Please describe briefly.: Building automation controls retrofit in 2 schools

Briefly describe your organization's plans to continue reducing emissions from its stationary sources in future years.

*Building automation controls district wide
Replace all singular low efficient gas fired space heating furnaces*

During 2016, did your organization participate in utility-sponsored energy demand management program(s) (e.g. BC Hydro's Energy Management (Manager))?

No

If yes, please describe briefly:

(No response)

2) Mobile Sources (Vehicles, Off-road/Portable Equipment): Fuel Combustion.

During 2016, did your organization take any of the following actions to support emission reductions from its mobile sources?

Select all that apply

(No response)

Briefly describe your organization's plans to continue reducing emissions from its mobile sources in future years.

Plan for replacement vehicles with more efficient when practical

3) Supplies (Paper):

During 2016, did your organization take any of the following actions to support emissions reductions from paper supplies?

Select all that apply

-
- Awareness campaign focused on reducing office paper use.
 - Other actions? Please describe briefly.: Encourage recycled paper use

Briefly describe your organization's plans to continue reducing emissions associated with its office paper use in future years.

Continue to encourage recycled paper use with current consumption between 30-50%

4) Other Sustainability Actions:

Business Travel:

During 2016, did your organization take any of the following actions to support emissions reductions from business travel?

Select all that apply

-
- Encouraged alternative travel for business (e.g. bicycles, public transit, walking)
 - Encouraged or allowed teleworking or working from home

Education Awareness:

During 2016, did your organization have any of the following programs or initiatives to support sustainability education and awareness?

Select all that apply

-
- Support for professional development on sustainability (e.g. workshops, conferences, training)
 - Supported or provided education to staff about the science of climate change, conservation of water, energy and/or raw materials

Other Sustainability Actions:

During 2016, did your organization have any of the following programs or initiatives to support sustainability?

Select all that apply

-
- A water conservation strategy which may include a plan or policy for replacing water fixtures with efficient models
 - An operations policy or program to facilitate the reduction and diversion of building occupant waste (e.g., composting, collection of plastics, batteries) from landfills or incineration facilities
 - Lifecycle costing of new construction or renovations