

2016 Carbon Neutral Action Report

Burnaby School District #41

Declaration Statement

This Carbon Neutral Action Report for the period January 1, 2016 to December 31, 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 the final Burnaby School District *Carbon Neutral Action Report* will be posted to our website at www.sd41.bc.ca

Overview

This year, Burnaby School District has continued to benefit through our proactive approach on energy management and utility conservation. 2016 Highlights include installation of three high efficiency boiler plants, improving ventilation at two elementary schools, and LED lighting upgrades at 12 sites that include five partial interior lighting upgrades and seven exterior upgrades.

District engagement are also indicators of our success as students & staff engaged in the "Holiday Power Downs" program, and the Burnaby Youth Sustainability Network (BYSN) hosted its sixth annual "Do it Green" all day conference for students to network and converse on sustainability initiatives.

With regard to emissions, we are proud to announce a reduction of more than 412 tons CO₂ equivalent from 2015 reporting. This is particularly impressive news as Burnaby's 2016 winter temperatures were recorded as lower than normal, with higher heating requirements throughout our facilities.

	tCO ₂ e	@ \$25/ton
2011	6941	\$173,525
2012	6196	\$154,900
2013	5977	\$149,425
2014	5040	\$126,000
2015	4854	\$121,350
2016	4442	\$111,050

Looking Ahead

Burnaby School District is dedicated to the pursuit of reducing emissions and energy conservation. Our dedicated Energy Management Team continues to work toward sourcing further opportunities for reducing emissions throughout our district facilities and vehicle fleet management.

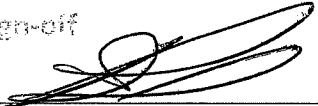
Emissions and Offset Summary Table

Burnaby School District GHG Emissions and Offset for 2016 (tCO ₂ e)	
GHG Emissions Created in Calendar Year 2016	
Total Emissions (tCO ₂ e)	4446
Total Offsets (tCO ₂ e)	4438
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (tCO ₂ e)	4
Total Offsets (tCO ₂ e)	4
Grand Total Offsets for the 2016 Reporting Year	
Grand Total Offsets (tCO ₂ e)	4442

Retirement of Offsets

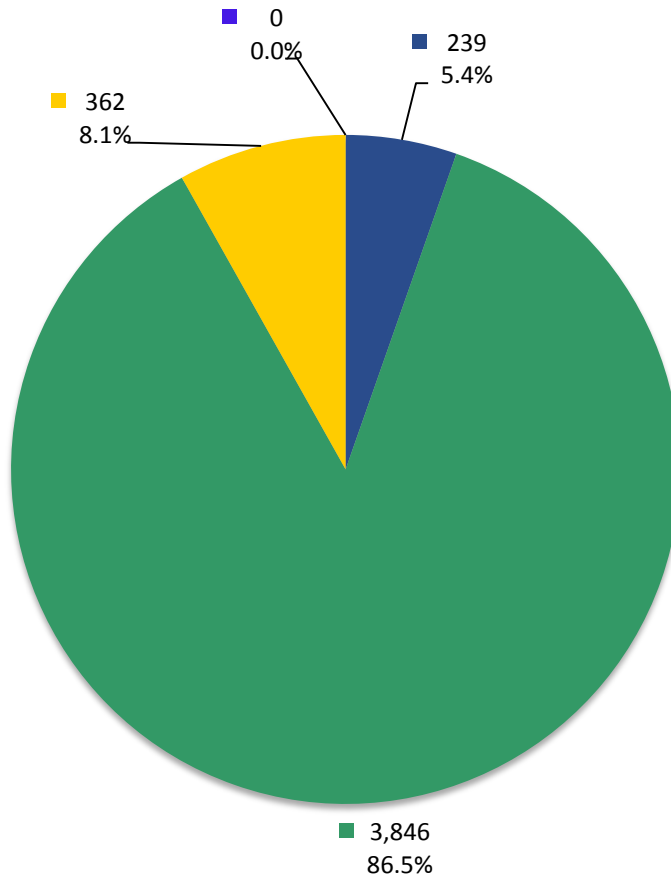
In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation: Burnaby School District (the Organization) is responsible for arranging for the retirement of the offsets obligation reported above for the 2016 calendar year, together with any adjustments 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  Date 29/05/2017

Name (please print) **Russell Horswill** Title **Secretary Treasurer**

**School District 41 - Burnaby
Greenhouse Gas Emissions by Source
for the 2016 Calendar Year (tCO₂e*)**



Total Emissions: 4,446

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)
- Fugitive Sources

Offsets Applied to Become Carbon Neutral in 2016 (Generated May 15, 2017 4:07 PM)

Total offsets required: **4,438**. Total offset investment: **\$110,950**. Emissions which do not require offsets: **8** **

*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

Part One (external)

Contact Name(s):

Matt Foley

Organization Name:

Burnaby School District #41

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

- Conducted an energy audit/study of building(s) in the organization's portfolio
- Performed energy retrofits of the organization's buildings.: yes 4 sites recieved upgrades to higher efficient boiler systems

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

As part of our Capital Plan ,Burnaby will continue to strive forward to continue to replace heating plants to higher efficient heating devices . Operator training and behavioral practices will also be a focal on for reducing our emission component.

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

Yes

If yes, please describe briefly:

Yes , we are currently part of the part of the B.C. Hydro energy manager program as well as the Fortis energy specialist program.

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

- Replaced existing vehicles with more fuel efficient vehicles (gas/diesel).: yes , last year 3 vehicles were replaced to a higher efficient vehicles
-

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

Our district is currently reviewing our vehicle inventory and developing a capital plan with an focus towards where low or zero emission vehicles would be applicable . Burnaby is currently installing 9 level 2 charging stations throughout the district .

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

-
- Policy requiring the purchase of recycled content paper.: Through our purchasing procurement all paper is reviewed for a recycled component
-

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

We will continue to focus on paper use and reduction.

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

- Other, please describe briefly: All district employees can gain access for numerous resources through district web access.
-

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

- Green, Sustainability or Climate Action Team
- 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
- Green procurement standards for goods (e.g., office furniture, etc.)