

2017 Carbon Neutral Action Report

Nanaimo-Ladysmith Public Schools (School District 68)

Declaration Statement

This Carbon Neutral Action Report for the period January 1st, 2017 to December 31st, 2017 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2017 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2018 and beyond.

By June 30, 2018, Nanaimo-Ladysmith Public Schools' (NLPS) final Carbon Neutral Action Report will be posted to our website at www.sd68.bc.ca.

Overview

In 2017, Nanaimo-Ladysmith Public Schools continued with our strategic plan to reduce energy consumption and our carbon foot print. In partnership with BC Hydro, the District was able to continue replacing outdoor lighting with LED technology and implementing interior occupancy sensors at fourteen sites.

Through the assistance of Carbon Neutral Capital Program (CNCP) and School Enhancement Program (SEP) funding, our District installed water source heat pumps to absorb consistent and reliable heat from the regional District of Nanaimo's main sewer outfall line; once complete this has been estimated to reduce the sites carbon emissions by up to 78%.

Lastly, we completed our third year of our Energy Cup Challenge in partnership with BC Hydro and Fortis BC's Energy Wise Network, where we initiated campaigns encouraging Schools to compete to save energy and take on sustainability initiatives.

In 2018 we will continue our efforts in upgrading interior lighting with LED technology, implementing further occupancy sensors and piloting interior dimming at one site. We will also continue with our fourth year of our Energy Cup Challenge in partnership with the Energy Wise Network to further increase our behavioral programs.

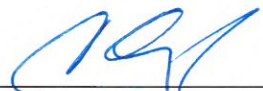
Emissions and Offsets Summary Table:

<i>Nanaimo-Ladysmith Public Schools</i>	
GHG Emissions and Offsets for 2017 (TCO2E)	
GHG Emissions created in Calendar Year 2017	
Total Emissions (TCO2E)	3,709
Total Offsets (TCO2E)	3,205
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (TCO2E)	219
Total Offsets (TCO2E)	218
Grand Total Offsets for the 2017 Reporting Year	
Grand Total Offsets (TCO2E)	3,423

Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, Nanaimo-Ladysmith Public Schools **(the Organization)** is responsible for arranging for the retirement of the offsets obligation reported above for the 2017 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy 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:

	May 11 2018
Signature	Date
Carrie McKeigh	
Name (please print)	Title

Part 1: CNAR Survey

1. General Information

Name: Pete Sabo

Contact Email: psabo@sd68.bc.ca

Organization Name: School District 68 - Nanaimo Ladysmith Public Schools

Sector: School District

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

During 2017, did your organization take any of the following actions to support emissions reductions from buildings? (please select all that apply)

Conducted an energy audit/study of building(s) in the organization's portfolio.; Performed energy retrofits of the organization's building(s)

If you selected "*Performed energy retrofits of the organization's building(s)*":

How many buildings were retrofitted?: 15

If you selected "*Built, or are building new LEED Gold or other "Green" buildings*":

How many new "Green" buildings?:

Did your Organization perform any retrofits during 2017? Please describe briefly:

- Lighting upgrades including exterior lighting with LED technology and installing interior occupancy sensors at 14 sites.
- Phase #1 of Carbon Neutral Capital Program (CNCP) & School Enhancement Program (SEP) funded Heat Recovery project at Hammond Bay Elementary which will allow the school to absorb heat by using heat pumps to be used as this schools primary heat source, from the Regional Districts effluent line which runs along school property.

2a. Stationary Sources (eg. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

Please briefly describe your organization's plans to continue reducing emissions from its stationary sources:

a) Over the next 1-5 years

Our organization plans to continue to retrofit inefficient and aging boilers with more efficient models or other types of heating plants with centralized mechanical retrofits including DDC upgrades as opportunities and funding becomes available.

b) Over the following 6-10 years

Our organization plans to continue to retrofit inefficient and aging boilers with more efficient models or other types of heating plants with centralized mechanical retrofits including DDC upgrades as opportunities and funding becomes available.

3. Mobile Sources (Vehicles, Off-road/portable Equipment): Fuel Combustion:

During 2017, did your organization take any of the following actions to support emission reductions from its mobile sources? (please select all that apply)

None of the above

If you selected "*Replaced existing vehicles with more fuel efficient vehicles (gas/diesel)*":

How many vehicles?:

If you selected "*Replaced existing vehicles with hybrid or electric vehicles*":

How many vehicles?:

3a. Mobile Sources (Vehicles, Off-road/portable Equipment): Fuel Combustion:

Please briefly describe your organization's plans to continue reducing emissions from its mobile sources:

a) Over the next 1-5 years

Our organization will continue to right size replacement vehicle replacements as they are required. New technologies will be considered as they become available for fleet use.

b) Over the following 6-10 years

Our organization will continue to right size replacement vehicle replacements as they are required. New technologies will be considered as they become available for fleet use.

4. Supplies (Paper): Indicate which actions your PSO took in 2017:

During 2017, did your organization take any of the following actions to support emissions reductions from paper supplies? (please select all the apply)

None of the above

If you selected "*Had a policy requiring the purchase of recycled content paper*":

State the required recycled content here (30%, 50%, 100%):

If you selected "*Had a policy requiring the purchase of alternate source paper (bamboo, hemp, wheat, etc)*", which type of alternate source paper did you use?

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

Encouraging the practice of not printing unless necessary is promoted within the organization.

5. Other Sustainability Actions

a) Business Travel

During 2017, did your organization take any of the following actions to support emissions reductions from business travel? (please select all that apply)

None of the above

b) Education/Awareness

During 2017, did your organization have any of the following programs or initiatives to support sustainability education and awareness? (please select all that apply)

A Green, Sustainability or Climate Action Team; Support for professional development on sustainability (e.g. workshops, conferences, training)

c) Other Sustainability Actions

During 2017, did your organization have any of the following programs or initiatives to support sustainability? (please select all that apply)

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