

2018 Carbon Neutral Action Report

Nanaimo-Ladysmith Public Schools (School District 68)

Declaration statement

This Carbon Neutral Action Report for the period January 1st, 2018 to December 31st, 2018 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2018 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2019 and beyond.

By June 30, 2019 Nanaimo-Ladysmith Public Schools (NLPS)] final Carbon Neutral Action Report will be posted to our website at www.sd68.bc.ca.

Overview:

In 2018, NLPS continued with the strategic plan of reducing energy consumption and GHG emissions. In partnership with BC Hydro, the District replaced outdoor lighting with LED technology, installed dimming and occupancy controls (offices/classrooms), and traded T8 fluorescent lamps for LED. Variations of this work was performed at 13 District sites. A goal of a 300,000 kWh reduction in electricity was attained.

At Cinnabar Elementary, 2 Atmospheric boilers providing 70% seasonal efficiency, were exchanged with 3 Condensing boilers. The new boilers offered 85-95% efficiency, saving on fuel and reducing GHG emissions by 20-30%.

At Hammond Bay School, a project harvesting heat from the Regional District's main sewer outfall line is nearing completion. Carbon emissions are estimated to be reduced by up to 78%; a possible addition planned for this school will also take advantage of this Green heating source.

We completed our fourth year of the Energy Cup Challenge in partnership with BC Hydro and Fortis BC's Energy Wise Network. Many schools took part, conservation of all resources was key, with behavioral changes being our main goal.

We continue to explore opportunities to limit our carbon footprint in 2019.

- We have planned and tendered an HVAC upgrade for Park Avenue Elementary. A 25% decrease in both energy consumed and CO2 emissions are expected (estimated 13.3 tonnes of CO2e saved each year).

- Next year's lighting upgrades have been proposed and accepted by BC Hydro, incentives will be paid to the District after completion of the project. We have committed to a further reduction of 300,000 kwhs.
- Phase 3 of the Cinnabar boiler upgrade will be completed (controls/fan coil), further reducing emissions.
- We will endeavor to improve and expand our Energy Cup Network, campaigns will be directed on saving energy, sustainability, and reducing emissions.


Nanaimo-Ladysmith Public Schools	
GHG Emissions and Offset for 2018 (tCO₂e)	
GHG Emissions created in Calendar Year 2018	
Total Emissions (tCO ₂ e)	3,312
Total BioCO ₂	35.98
Total Offsets (tCO ₂ e)	3,245
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (tCO ₂ e)	326
Total Offsets (tCO ₂ e)	325
Grand Total Offsets for the 2018 Reporting Year	
Grand Total Offsets Required (tCO ₂ e)	3,570
Total Offset Investment	89,250

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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 2018 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.

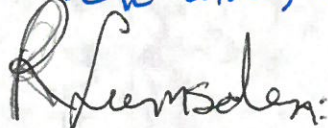
Executive sign-off:

Signature  Date *May 25/19*

Carrie McVeigh
SECRETARY-TREASURER
School District No. 68
(Nanaimo-Ladysmith)

Name (please print) Title


PETE SABO, Director of Planning & Operations *May 21, 2019*


Rob Lumsden, ENERGY MANAGER *May 21/19*