



2020 PSO CLIMATE CHANGE ACCOUNTABILITY REPORT (CCAR)

Organization: Nanaimo-Ladysmith Public Schools (School District 68)

Declaration statement: This Climate Change Accountability Report for the period January 1, 2020 to December 31, 2020 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2020 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2021 and beyond.

By June 30th, 2021, NLPS final 2020 Carbon Neutral Action Report will be posted to our website at www.sd68.bc.ca

Overview:

In 2020, NLPS continued with the strategic plan of reducing energy consumption and GHG emissions. In partnership with BC Hydro, the District replaced indoor lighting (T8 fluorescent to LED) in seven schools. Our goal of a 300,000-kWh reduction in electricity was attained.

Park Avenue: Phase 2 has been completed this year: two additional classrooms, change rooms, and the gym is now serviced by efficient condensing boilers. Fuel and GHGs will decline with the added benefit of comfort and reliability. A 25% reduction in fuel costs and a 13.3 Ton reduction of CO₂e is anticipated and will be measured over the next heating season.

Chase River Elementary: An electric heat pump hot water tank was installed over a gas or electric only option. Excess heat in the boiler room is now recovered with an efficient heat pump contributing near zero emissions.

Cedar Elementary: three old rooftop gas-fired units have been replaced with hybrid heat pumps. The heat pumps are clean and efficient with the backup gas heat to be used when the unit is in defrost mode and during highest peak cold temperatures.

Gabriola Elementary: HVAC upgrade of five oil furnaces were replaced with propane furnaces. Results of a 12% decrease in energy, 18% decrease in CO₂e emissions, and 8.9 Tons of CO₂e saved are estimated.

NLPS completed the 6th year of the 'Energy Cup Challenge', in partnership with Fortis and BC Hydro. Conservation of resources and behavioral change were key elements for the competing schools



In 2021, NLPS will continue the Power Smart lighting program with BC Hydro, the target will again be a 300,000-kWh reduction.

Woodlands Band Room: the end of life gas furnace was replaced by a heat pump system that will save over 2.5 tCO₂e due to less natural gas being used.

Cedar Secondary: two natural gas hot water tanks are being replaced with electric units reducing GHG's by approximately 6 tCO₂e.

Rutherford: High efficiency upgrades to heating system is slated to complete by December 31st, 2021.

We are planning our 7th year of the 'Energy Cup Challenge', in partnership with Fortis and BC Hydro. Conservation of resources and behavioral change were key elements for the competing schools.

As of June 1st, 2021, we now have two Electric School buses in full operation. Buses arrived on-site on May 6th, 2021. Even though buses are exempt in calculating offsets for the District, the goal to reduce our carbon footprint will still be positively affected by switching from diesel to a carbon-free fuel. There are future plans of adding more EV buses to the fleet as capital becomes available. See below for media release:

<https://www.nanaimobulletin.com/news/nanaimo-ladysmith-school-district-shows-off-electric-buses/>

Will continue to evaluate renewable sources of energy to help reduce the District's carbon footprint.

Emissions and Offset Summary Table:

<i>Nanaimo Ladysmith Public Schools (SD68) 2020 GHG Emissions and Offsets</i>	
GHG Emissions created in Calendar Year 2020	
Total Emissions (tCO ₂ e)	3453
Total BioCO ₂	25
Total Offsets (tCO ₂ e)	3138
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	-371
Grand Total Offsets for the 2020 Reporting Year	
Grand Total Offsets (tCO ₂ e) to be Retired for 2020 Reporting Year	2767
Offset Investment (\$25 per tCO ₂ e) [Grand Total Offsets to be Retired x \$25/tCO ₂ e]	\$69,175



Retirement of Offsets:

In accordance with the requirements of the *Climate Change Accountability Act* and Carbon Neutral Government Regulation, Nanaimo-Ladysmith Public Schools (School District 68) is responsible for arranging for the retirement of the offsets obligation reported above for the 2020 calendar year, together with any adjustments reported for past calendar years (if applicable). The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy (**the Ministry**) 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 28, 2021

Signature

Date

Mark Walsh, Secretary-Treasurer

Name (please print)

Title

Please scan and email the completed form to Carbon.Neutral@gov.bc.ca