



School District 8
Kootenay Lake

2020 PSO Climate Change Accountability Report

Prepared: May 2021

sd8.bc.ca

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Contents

Declaration Statement	3
Overview.....	3
Emissions and Offset Summary Table	5
Retirement of Offsets Statement	5
Executive sign-off	5

Declaration Statement

Title: 2020 PSO Climate Change Accountability Report

Organization: The Board of Education of School District No. 8 (Kootenay Lake)

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 30, 2021 School District No. 8 - Kootenay Lake's final 2020 Climate Change Accountability Report will be posted to our website at www.sd8.bc.ca

Overview

Each year, the Board updates its five-year "Capital Operations Plan, under which the District undertakes various facilities and transportation initiatives to reduce the District's carbon footprint. Under these Capital Operations Plans, we install LED lighting, upgrade building envelopes, replace or improve mechanical systems, all to reduce emissions. Building retrofits aim to reduce the District's carbon footprint, increase efficiencies, and reduce operating costs. The following building designs and retrofits were completed in 2020-2021:



ARES Lower Level Renovation

ARES Elementary School: renovation of lower level

Blewett Elementary School: furnace upgrade

Hume Elementary School: building and doors replacement completed

LV Rogers Secondary School: 4 main recirculation pumps for heating system replaced

Rosemont Elementary School: furnace replacement

Salmo Elementary School: lighting upgrade to LED

South Nelson Elementary School: boiler room, mechanical upgrade, new heating system, radiators

Trafalgar Middle School: new air unit servicing gym and change room areas

Winlaw Elementary School: exterior doors replaced, roof replacement



Hume Windows & Doors Replacement



South Nelson Mechanical Upgrades

Bottle fill stations (to discourage use of plastic bottles): installed at Jewett, Crawford Bay, Canyon, Brent Kennedy, Winlaw

Design of mechanical systems: for PCSS Fieldhouse, WEG classrooms, Central gym

DDC (Direct Digital Control): Additional new digital controls were installed in various buildings. Nearly all DDCs in District facilities have now been modernized.

Roofing audit: all district sites

The following building retrofits are planned for 2021-2022:

- Central School Building: mechanical upgrade gym
- Mount Sentinel Secondary School: mechanical upgrade
- Prince Charles Secondary School: mechanical upgrade fieldhouse
- Trafalgar Middle School: renovation, dust collector system upgrade
- WE Graham School: mechanical upgrade classrooms
- DDC (Direct Digital Control): district upgrades continued

As fleet vehicles are replaced, the District plans to acquire EV, PHEV or hybrid vehicles. In 2020 the District purchased or leased 1 new electric light duty vehicle, 2 new hybrid light duty vehicles, as well as 1 used van to reduce costs. Due to the unavailability of electric buses and Bylaw Capital funding provided, the District purchased a diesel bus, with plans to replace its bus fleet with full EV buses or propane buses in future, such purchases to commence in 2021. All new non-service fleet vehicles are planned to be electric or hybrid.



Trafalgar Air Unit



WEG students planting trees & shrubs

Level 2 charging stations are planned to be installed at various secondary schools, the Board office, and both Nelson and Creston operations facilities by 2022. Level 3 charging stations are planned for Nelson and Creston operations yards for buses.

The District's Go Green Initiative includes low carbon initiatives in all elements of the District's operations including school-based waste reduction and recycling programs.

In 2020, W.E. Graham School installed native tree nature scape. The school received a TREE Canada Grant and students planted nearly 30 trees and shrubs in their playground area. The District's paper reduction initiative uses software to count and reduce usage of paper District wide in all employee categories. An employee E-Bike purchase program was implemented. For a full listing of the District's school and departmental Go Green Initiatives, please visit www.sd8.bc.ca/go-green



WEG students planting trees & shrubs

Emissions and Offset Summary Table

School District No. 8 - Kootenay Lake's 2020 GHG Emissions and Offsets	
GHG Emissions created in Calendar Year 2020	
Total Emissions (tCO ₂ e)	2,953
Total BioCO ₂	32
Total Offsets (tCO ₂ e)	2,313
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	(99)
Grand Total Offsets for the 2020 Reporting Year	
Grand Total Offsets (tCO ₂ e) to be Retired for 2020 Reporting Year	2,214
Offset Investment (\$25 per tCO₂e)	\$55,350

Retirement of Offsets Statement

In accordance with the requirements of the Climate Change Accountability Act and Carbon Neutral Government Regulation, School District No. 8 (Kootenay Lake) (**the Organization**) 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



Signature

Dr. Christine Perkins

Name

May 31, 2021

Date

Superintendent & Chief Executive Officer

Title