

School District No. 51 (Boundary)



# 2022 PSO Climate Change Accountability Report

# **Part 1. Legislative Reporting Requirements**

## **Declaration Statement**

- This Carbon Neutral Action Report for the period January 1st, 2022 to December 31st, 2022 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2021 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2022 and beyond.
- By June 30, 2023, School District 51's final *Carbon Neutral Action Report* will be posted to our website at [www.sd51.bc.ca](http://www.sd51.bc.ca).
- SD51 Board of Education continues to believe that we should all be lifelong learners, and as a District we try to cultivate as well as teach a respect for our environment that will follow our students into adulthood. We believe that the District and its schools have a unique opportunity to reinforce positive environmental concepts, that will enhance the relationship between living things and their natural and built surroundings.

## Emission Reductions: Actions & Plans

### A. Stationary Sources (e.g. buildings, power generation)

- Completed 12 site energy audits with energy conservation measures
  - o Walker Development Centre
  - o West Boundary Elementary
  - o Dr. D. A. Perley Elementary
  - o Grand Forks Secondary
  - o John A. Hutton Elementary
  - o Boundary Central Secondary
  - o Beaverdell Elementary
  - o Big White Community School
  - o Boundary Learning Centre
  - o Christina Lake Elementary
  - o Greenwood Elementary
  - o Midway Elementary
- Changed variable frequency drive pumps on HVAC system at Perley Elementary
- Completed coolant audit in the boiler systems across the District
- Planning to upgrade the building management system software in 2023/24
- Successful in acquiring two electric buses and planning to install a fast charge station in Midway
- Applying for one more electric bus
- Working toward creating a long-range plan for capital spending that has carbon reduction as a main focal point when choosing projects for both fleet and facility spending plans

### B. Mobile Sources (e.g. fleet vehicles, off-road/portable equipment)

- School District 51 has purchased two electric buses in 2022 and installed one charging station and plan on installing another charging station in 2023
- Bought a lawn mower with tier 4 emissions
- Completed a full electric vehicle audit at both bus garage/maintenance shops
- A fleet replacement plan has been completed with the lens of reducing carbon emissions over the next 15 years

### C. Paper Consumption

- School District 51 continues to use key fobs on all photocopier machines in order to track paper usage across the District
- Over the past two years School District 51 has used Grand & Toy as our paper supplier. Grand & Toy promises to limit waste, conserve energy, and promote recycling as stated in their sustainability commitment: [Grand & Toy](#)

## 2022 GHG Emissions and Offsets Summary Table

School District No. 51 (Boundary) 2022 GHG Emissions and Offsets Summary	
<b>GHG emissions for the period January 1 - December 31, 2022</b>	
Total BioCO <sub>2</sub>	10.5
Total Emissions (tCO <sub>2</sub> e)	1354
Total Offsets (tCO <sub>2</sub> e)	1163
<b>Adjustments to Offset Required GHG Emissions Reported in Prior Years</b>	
Total Offsets Adjustment (tCO <sub>2</sub> e)	0
<b>Grand Total Offsets for the 2022 Reporting Year</b>	
Grand Total Offsets to be Retired for 2022 Reporting Year (tCO <sub>2</sub> e)	1163
Offset Investment (\$)	\$29,075

### Retirement of Offsets

In accordance with the requirements of the *Climate Change Accountability Act* and Carbon Neutral Government Regulation, School District No. 51 (Boundary) (**the Organization**) is responsible for arranging for the retirement of the offsets obligation reported above for the 2022 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.

## Part 2. Public Sector Climate Leadership

### Climate Risk Management

- Designing irrigation systems to allow for tree watering zones in order to keep trees watered during droughts in compliance with provincial regulations for water reduction
- Removed inefficient water tower and installed chiller unit at West Boundary Elementary

### Success Stories

In 2022 School District No. 51 continued to strive to improve our efficiencies and help reduce our footprint. The actions we took in 2022 that had the most impact increasing our efficiencies were:

- Upgraded power supply and charging stations at one of the bus garages
- Installed new VFD well pump for irrigation at John A. Hutton Elementary School
- Replaced classroom lighting to LED lighting in classrooms at CLES
- Continued improvement of air leakage at West Boundary Elementary School
- Replacement of the water tower at West Boundary Elementary School with a new chiller system
- Replaced the exhaust fans at Grand Forks Secondary School
- At John A. Hutton Elementary School lighting controls were tied to occupancy in the building to reduce energy consumption
- Ordered 2 electric school buses

### Executive Sign-off



May 31, 2023

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**Signature**

**Date**

Anna Lautard

Superintendent

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**Name**

**Title**