



School District 8
Kootenay Lake



2022 PSO Climate Change Accountability Report

Prepared May 2023



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Prepared: May 9, 2023

Contents

Declaration Statement	2
Overview	2
Emissions and Offset Summary Table	4
Retirement of Offsets Statement.....	4
Executive sign-off	5

Declaration Statement

Title: 2022 PSO Climate Change Accountability Report

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

Declaration Statement: This Climate Change Accountability Report for the period January 1, 2022 to December 31, 2022, summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions taken in 2022 and 2023 to reduce greenhouse gas emissions, and ongoing planning to continue reducing emissions in 2024 and beyond.

By June 30, 2023, School District No. 8 Kootenay Lake's 2022 Climate Change Accountability Report will be posted to our website at www.sd8.bc.ca.

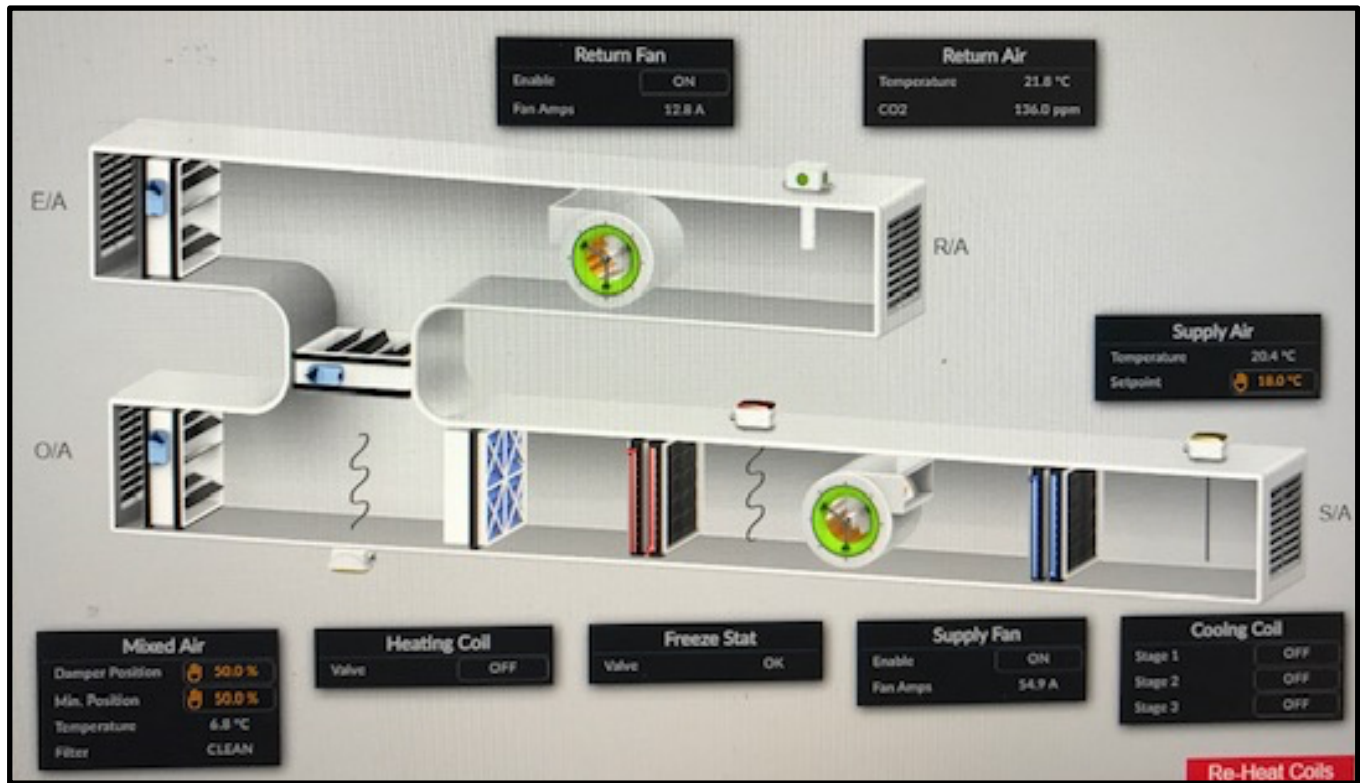
Overview

In alignment with the SD8 5-Year Capital Plan highlights various facilities and transportation initiatives to reduce the district's carbon footprint. Several building retrofits aim to reduce the district's carbon footprint, increase efficiencies, and reduce operating costs. In 2022-2023, SD8 installed LED lighting, upgraded building envelopes, replaced or improved mechanical systems, in an effort to reduce CO2 emissions.

The following building designs and retrofits were completed in 2022-2023:

- **Brent Kennedy Daycare:** Mechanical upgrade including new furnace and ductwork.
- **Wildflower Nelson School:** New gym rooftop unit, new HRV for the library, and 2 additional new heat pumps.
- **Direct Digital Control (DDC) Upgrades:** Completed at Erickson Elementary and J.V. Humphries School.
- **LED Lighting:** 80% of buildings across the school district are upgraded.
- **Mount Sentinel Secondary School:** Complete mechanical upgrade continues with the completion at 50% completion.
- **Trafalgar Middle School:** Four complete classroom renovations that include new unit ventilators. A new unit ventilator was also installed in the maker space. A Supply Fan 1 (SF1) replacement was completed. The new unit has a more efficient motor and starter as well as a heating coil to efficiently heat the center part of the school. New gym and auditorium Air Handling Units (AHU's) were installed. The Foods room renovation included a ventilation upgrade with new exhaust and make up air units and a DDC upgrade for the reheat coil. A new dust collector that uses return air rather than outdoor air has minimized heat loss, and this unit is also now connected to the DDC system.
- **SD8 Electric Buses:** The two new electric buses are in the final stages of commissioning; students are riding them on daily routes almost full time. Charging infrastructure is under construction and data collection protocols are almost in place.

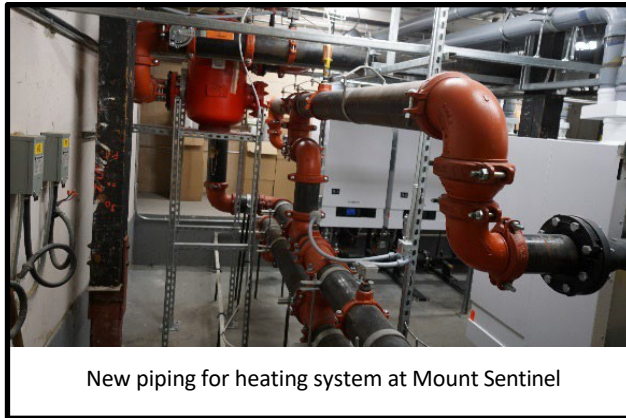
The picture below is a screenshot of one of our new DDC systems.



The following building retrofits are planned for 2023-2024:

Looking Forward:

- **Blewett Elementary School:** New furnace to be installed in the library.
- **Wildflower Nelson School:** Assessment of a complete door and window project.
- **Kootenay River Secondary School and Red Fish Elementary School:** DDC upgrades
- **Kootenay River Secondary School:** Continue with the LCEF Federal grant application (LCEF is the Low Carbon Economy Fund) for a geothermal HVAC system.
- **L.V. Rogers Secondary School:** Engineering for the new DDC system.
- **SD8:** Complete remaining lighting upgrades to achieve 100% LED lighting installation.
- **White fleet:** Leased vehicles were renegotiated for hybrid SUVs.



The district's paper reduction initiative uses software to count and track and report on usage of paper district-wide for all employee categories. The district is now doing further planning on sensitizing the employees to be responsible in their ways of using photocopies and printing

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. www.sd8.bc.ca/go-green](http://www.sd8.bc.ca/go-green).

Emissions and Offset Summary Table

School District No. 8 - Kootenay Lake's 2022 GHG Emissions	
GHG Emissions created in Calendar Year 2022	
Total Emissions (tCO ₂ e)	3,933
Total BioCO ₂	39
Offsets	
GHG Emissions created in Calendar Year 2022	
Total Offsets (tCO ₂ e)	3,285
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	(0)
Grand Total Offsets for the 2022 Reporting Year	3,285
Grand Total Offsets (tCO ₂ e) to be Retired for 2022 Reporting Year	X \$25 per tCO ₂ e
Offset Investment	\$82,125



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 offset 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.

Executive sign-off

A handwritten signature in black ink, appearing to read "Trish Smillie", written over a horizontal line.

Signature

May 9, 2023

Date

Trish Smillie

Name

Superintendent & Chief Executive Officer

Title