

2023 PSO CLIMATE CHANGE ACCOUNTABILITY REPORT

Sea to Sky School District (No. 48)

Declaration

This Climate Change Accountability Report for the period January 1st, 2023 to December 31st, 2023 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2023 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2024 and beyond.

By June 30, 2024 Sea to Sky School District's (No. 48) final Climate Change Accountability Report will be posted to our website at <http://www.sd48.org/>.

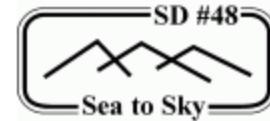
2023 Actions

In 2023, School District 48 took action to reduce GHG emissions through the following initiatives:

Location	Project
Whistler Secondary School	HVAC Phase 2 of 3: End of life terminal equipment replacement with Low Water Temperature (LWT) units. Phase 2 was split into 2 and 3 due to equipment delays.
Mamquam Elementary	Boiler Replacement: End of life natural gas boiler replacement with condensing units.
Various	LED upgrades at various sites. Spaces included external parking lots, theatres, and gymnasiums.
Bus Fleet	Fuel Switching of School Bus Fleet: A propane fueled bus pilot has been successfully completed. The 1 st bus was purchased and added to the standard fleet in 2023.

2024 Planning

School District No. 48 has an ongoing contract for energy management services with Rede Energy Solutions. Rede is an integral part of the school district's facilities and operations team. Responsible for establishing and implementing the overall energy management strategy for the school district, Rede works with facilities leadership and staff to set energy and GHG emissions reduction targets, identify improvement opportunities, conduct building energy studies, secure grants and incentive funding, and oversee the implementation of improvement projects. Energy savings and GHG emissions reductions are evaluated annually, and new targets are set annually.



The following projects are approved, and construction is scheduled for summer 2024:

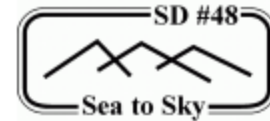
Location	Project
Whistler Secondary School	HVAC Electrification Phase 3 of 3: Addition of Air Source Heat Pump (ASHP) to serve as primary heat.
Mamquam Elementary	HVAC Electrification Phase 2 of 2: End of life terminal equipment replacement with LWT units. Addition of Air Source Heat Pump (ASHP) to serve as primary heat.
St'a7mes Elementary	HVAC Phase 1 of 2: End of life terminal equipment replacement with LWT units.
Bus Fleet	Fuel Switching of School Bus Fleet: Another propane powered bus will be added to the fleet.

The following are some of the projects for consideration for Ministry funding for completion in 2024 or beyond.

Location	Project
Pemberton Secondary School	GeoExchange Fuel Switching - Electrification: Full mechanical retrofit including ground source GeoExchange. The retrofit would enable mechanical cooling of the facility. Reduce GHG by 119 tCO₂e .
Valleycliffe Elementary	Envelope Upgrade: Window Replacement
Squamish Elementary	Envelope Upgrade: Window Replacement

The following projects are in the planning phase for 2024 and beyond:

Location	Project
District Wide	Creating an electrification roadmap for all facilities. Projects will focus on implementing electric heat pump technology for primary heating.
District Wide	Upgrading existing end of life fluorescents to LED lighting.
District Wide	Continuous Optimization of HVAC controls.



Emissions and Offset Summary

SD48 uses the provincial Clean Government Reporting Tool (CGRT) to track and report its emissions as required by legislation for all public sector entities in BC. Reportable sources of GHG emissions within SD48 are:

- Natural gas and propane consumption to run heating and hot water systems
- Electricity consumption within facilities
- Vehicle fuel consumption of the SD48 fleet and school buses
- Paper consumption

SD48 2023 GHG Emissions and Offsets Summary	
GHG emissions for the period January 1 - December 31, 2023	
Total BioCO ₂	22
Total Emissions (tCO ₂ e)	1,832
Total Offsets (tCO ₂ e)	1,524
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	11
Grand Total Offsets for the 2023 Reporting Year	
Grand Total Offsets to be Retired for 2023 Reporting Year (tCO ₂ e)	1,536
Offset Investment (\$25 per tCO ₂ e)	\$ 38,400

Retirement of Offsets

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, **Sea to Sky School District (No. 48)** is responsible for arranging for the retirement of the offsets obligation reported above for the 2023 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Environment 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

Chris Nicholson

Name (Please print)

5/29/2024

Date

Superintendent of Schools

Title