

2022 PSO CLIMATE CHANGE ACCOUNTABILITY REPORT

Sea to Sky School District #48

Declaration

This Climate Change Accountability 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 2022 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2022 and beyond.

By June 30, 2023 Sea to Sky School District #48's final Climate Change Accountability Report will be posted to our website at <http://www.sd48.org/>.

2022 Actions

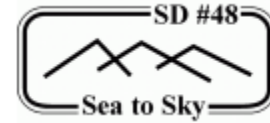
In 2022, School District 48 took action to reduce GHG emissions through the following initiatives:

Location	Project
Whistler Secondary School	Boiler Replacement (HVAC Phase 1 of 2): End of life natural gas boiler replacement with condensing units. Updated mechanical control system. Reduce GHG by 43 tCO₂e .
Valleycliffe Elementary	Boiler Replacement: End of life natural gas boiler replacement with condensing units. Reduce GHG by 11 tCO₂e .
Pemberton Secondary School	Envelope Upgrade - Replaced full envelope including windows.
Pemberton Secondary School	Building Automation Optimization – Updated and re-programmed facility. Reduce GHG by 5 tCO₂e .

2023 Planning

School District 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 2023:



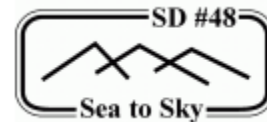
Location	Project
Whistler Secondary School	HVAC Phase 2 of 2: End of life terminal equipment replacement with condensing units. Reduce GHG by 10 tCO₂e .
Mamquam Elementary	Boiler Replacement: End of life natural gas boiler replacement with condensing units. Reduce GHG by 18 tCO₂e .

The following projects will be submitted 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
Bus Fleet	Fuel Switching of School Bus Fleet: A propane fueled bus pilot has been successfully completed. The first purchase is approved for 2023.
Facility Electrification	Creating electrification roadmap for facilities.



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 2022 GHG Emissions and Offsets Summary	
GHG emissions for the period January 1 - December 31, 2022	
Total BioCO ₂	21
Total Emissions (tCO ₂ e)	1,884
Total Offsets (tCO ₂ e)	1,564
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	-22
Grand Total Offsets for the 2022 Reporting Year	
Grand Total Offsets to be Retired for 2022 Reporting Year (tCO ₂ e)	1,543
Offset Investment (\$25 per tCO ₂ e)	\$ 38,563

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 #48** 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. 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

	5/29/2023
Signature	Date
Chris Nicholson	Superintendent of Schools
Name (Please print)	Title