

2020 PSO CLIMATE CHANGE ACCOUNTABILITY REPORT
Sea to Sky School District #48

Declaration

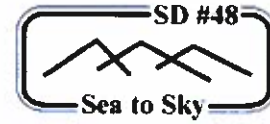
This Climate Change Accountability Report for the period January 1st, 2020 to December 31st, 2020 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2020 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2021 and beyond.

By June 30, 2021 Sea to Sky School District #48's final Climate Change Accountability Report will be posted to our website at <http://www.sd48.org/>.

2020 Actions

In 2020, School District 48 took action to reduce GHG emissions through the following initiatives:

Location	Project
Don Ross Middle School	HVAC Phase I: Replace nine (9) Unit Ventilators and thirteen (13) Water Source Heat Pumps with high-efficiency units including full digital control. Upgrade make up air hot water heat coils to low temperature, enabling reduced hot water temperature. Reduce GHG by 7 tCO_{2e} .
Spring Creek Elementary	Boiler Replacement: End of life natural gas boiler replacement with condensing units. Reduce GHG by 25 tCO_{2e} .
Don Ross Middle School	LED Lighting Upgrade: Retrofit to eliminate all remaining fluorescent hallway fixtures with LED panels enabling dimming based on occupancy. Reduce GHG by 0.5 tCO_{2e}
Howe Sound Senior Secondary	LED Lighting Upgrade: Retrofit to eliminate all remaining fluorescent hallway fixtures with LED panels enabling dimming based on occupancy. Reduce GHG by 0.5 tCO_{2e}
Myrtle Phillip Elementary	Building Automation: Enable occupancy-based control for community wing including optimizing boiler performance. Reduce GHG by 10 tCO_{2e} .
Pemberton Senior Secondary	Full Envelope Upgrade (In Progress): Replace entire envelope including windows.

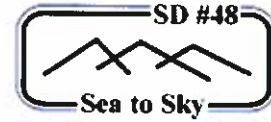


2021 Planning

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/considered for 2021 and beyond:

Location	Project
Don Ross Middle School - APPROVED	HVAC Phase II: Replace twenty (20) Water Source Heat Pumps with high-efficiency units. Reduce GHG by 5 tCO₂e .
Brackendale Elementary – APPROVED	Boiler Replacement: End of life natural gas boiler replacement with condensing units. Reduce GHG by 25 tCO₂e .
Signal Hill Elementary - APPROVED	Boiler Replacement: Replacement of end-of-life propane hot water boilers with condensing units. Re-piping of current configuration to increase use of existing GeoExchange ground source system. Reduce GHG by 40 tCO₂e .
Various - APPROVED	LED Lighting Upgrade: DRMS, WSS, MPC – External Parking HPS to LED WSS – Hallway Fluorescent Troffers to 2x4 LED Panels. DRMS – Library, Art, and Music Room Fluorescent to LED High Bays.
Myrtle Phillip Elementary - APPROVED	Building Automation Optimization: BC Hydro sponsored optimization project. Review and optimize mechanical system sequence and equipment. Reduce GHG by 10 tCO₂e .
Pemberton Senior Secondary	GeoExchange Fuel Switching: Full mechanical retrofit including ground source GeoExchange. Reduce GHG by 119 tCO₂e .
Bus Fleet	Electrification of School Bus Fleet: Currently in EV charging station feasibility investigation.
Valleycliffe Elementary	Envelope Upgrade: Window Replacement
Squamish Elementary	Envelope Upgrade: Window Replacement



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. Emissions Sources Reportable sources of GHG emissions within SD48 are:

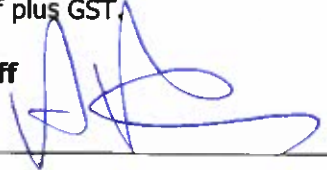
- Natural gas and propane consumption to run heating and hot water systems
- Electricity consumption within facilities
- Vehicle fuel consumption of the SD48 fleet and school buses
- Paper consumption

SD48 2020 GHG Emissions and Offsets	
GHG Emissions created in Calendar Year 2020	
Total Emissions (tCO ₂ e)	1,796
Total BioCO ₂	44.9
Total Offsets (tCO ₂ e)	1,514
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	58
Grand Total Offsets for the 2020 Reporting Year	
Grand Total Offsets (tCO ₂ e) to be Retired for 2020 Reporting Year	1,572
Offset Investment (\$25 per tCO ₂ e)	\$ 39,309

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 2020 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 
 Name (Please print) Mohammed Azim

Date May 31st, 2021
 Title Secretary Treasurer