

SCHOOL DISTRICT 72 (CAMPBELL RIVER)

2022 PSO CLIMATE CHANGE ACCOUNTABILITY REPORT

Title: 2022 PSO Climate Change Accountability Report

Organization: The Board of Education of School District 72 (Campbell River)

PART 1. Legislative Reporting Requirements

Declaration statement: This PSO Climate Change Accountability Report for the period January 1, 2022 to December 31, 2022 summarizes our greenhouse gas (GHG) emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2022 to minimize our GHG emissions, and our plans to continue reducing emissions in 2023 and beyond.

Emission Reductions: Actions & Plans

The 2022 Strategic Energy Management Plan provides an overview of our school district's energy consumption and the impact on our organization's carbon footprint. This document is available for viewing at: <https://crsd72storage.blob.core.windows.net/media/Default/medialib/sd72-strategic-energy-management-plan-2022.44053d6275.pdf>

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

Completed 2022 projects with the highest energy conservation impacts are summarized in the following table.

Location	Description	Cost	Funding Source(s)	Comments
Quadra School	Mechanical upgrade of west wing	\$349,000	Ministry of Education	Life cycle replacement of main air handling unit and controls upgrades
Southgate Middle	Life Cycle replacement of one roof section	\$615,000	Ministry of Education	Improved roof R-value and reflectivity.
Robron Centre	Replace HVAC Controls and valves	\$289,000	Ministry of Education	Improved controls for mechanical heating systems

Ripple Rock Elementary	Life cycle replacement of boilers	\$133,000	Ministry of Education	Conversion to high efficiency boilers in conjunction with life cycle replacement
Southgate Middle School	HVAC Upgrades	\$415,000	Ministry of Education	HVAC and DDC controls upgrade D Wing.
Georgia Park Elementary	HVAC	\$70,000	Ministry of Education	Upgrade HVAC controls to DDC.
Ocean Grove Elementary	HVAC	\$58,000	Ministry of Education	Upgrade HVAC controls to DDC.

School District 72 has consistently achieved energy conservation and greenhouse gas reductions targets by taking full advantage of opportunity funding and external grants. Going forward, energy conservation initiatives will strive for an ongoing 2% reduction in energy consumption per year. To achieve this goal, the Annual Facilities Grant, Major Capital Program, Carbon Neutral Capital Program and School Enhancement Program will consider and incorporate energy conservation opportunities when developing school renewal projects.

Planned 2023 life-cycle replacement projects with the highest energy conservation opportunities are summarized in the following table.

Location	Description	Preliminary Budget	Funding Source(s)	Comments
Southgate Middle School	HVAC Upgrades (Phase 2)	\$459,000	Ministry of Education	Mechanical HVAC Upgrade Phase 2 (C-Wing)
Southgate Middle School	Life Cycle replacement of two roof sections	\$230,000	Ministry of Education	Improved roof R-value and reflectivity packaged with added fall safety features.
Quadra Elementary	HVAC Upgrades (Phase 2)	\$414,000	Ministry of Education	Lifecycle replacement of air handlers and HVAC controls upgrade. East Block and gym.

Sayward Elmenetary	HVAVC Upgrades	\$501,000	Ministry of Education	Mechanical upgrade including replacement of boilers, ERV system, DDC controls.
Sayward Elementary, Cortes Elementary, Maintenance Yard	Electrification Upgrade and Installation of Electric Chargers	\$306,000	Ministry of Education	Electric service upgrade in support of and installation of Level 2 charging stations at 3 sites to support transition to Electric buses.

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

Three Type D (84 passenger) school buses were replaced in 2022 with comparable modern diesel vehicles. The replaced buses were experiencing significant maintenance issues and it is anticipated that reduced emissions will result from their retirement.

The District has secured funding for necessary electrical upgrades and the installation of electric charging stations at 3 sites in 2023 including the Bus Maintenance Yard in support of the electrification of both the bus fleet and white fleet (passenger vehicles). The District’s first electric bus, a 76 passenger Type C, has been ordered and is expected to arrive in late 2023. Additional grant funding has been secured for the acquisition of two additional replacement electric busses by the end of 2025. The District plans to continue the electrification of it’s white and bus fleet as funding opportunities and technology (range capacity) allow.

C. Paper Consumption

Paper consumption represents a very small portion of our organization’s carbon footprint. Nevertheless, there is general awareness of alternative sources of paper (eg sugar cane – Penfield Elementary) and use of electronic correspondence is the norm throughout the school district. The District has begun discussions on moving additional processes to fully paperless.

2022 GHG Emissions and Offsets Summary Table

<i>School District 72 - 2022 GHG Emissions and Offsets Summary</i>	
GHG emissions for the period January 1 - December 31, 2022	
Total BioCO ₂	22
Total Emissions (tCO ₂ e)	2282
Total Offsets (tCO ₂ e)	1917
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	
Grand Total Offsets to be Retired for 2022 Reporting Year (tCO ₂ e)	1917
Offset Investment (\$)	\$47,925

Retirement of Offsets:

In accordance with the requirements of the *Climate Change Accountability Act* and Carbon Neutral Government Regulation, The Board of Education of School District 72 – Campbell River (**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

2A. Climate Risk Management

Climate change adaptation is an ongoing consideration when conducting facility repairs or upgrades. Ongoing programs include the use of reflective roof coatings (mitigating the effects of urban heat sinks), upgrades to drainage systems including natural drainage systems (anticipating increased frequency of extreme weather events), and applying tinted film on exterior windows (reducing solar gain in classroom

spaces). As exemplified during the recent 2021 and 2022 heat domes, reactive measures include the installation of portable air conditioners and fans.

2B. Other Sustainability Initiatives

Outdoor educational activities are found in all schools as a key support for raising environmental awareness and promoting sustainability. School gardens are found through the school district.

Operational Procedure 515 (Environmental Responsibility) reinforces the district's commitment to protecting and preserving the environment. An example of this commitment is the extensive recycling program found through the school district. The District will be exploring opportunities for collecting organics in schools to align with a recently launched program in the broader Campbell River community.


2C. Success Stories

Strengthening and expanding community relations is important to Campbell River School District Strategic Plan. Environmental stewardship awards from the City of Campbell River, Union of BC Municipalities, and Campbell River Chamber of Commerce reflect our positive relationships with community partners. Additionally, School District 72 has received many awards from BC Hydro for energy conservation projects. In recognition of mechanical upgrades at three schools, FortisBC recognized School District 72 with the 2021 Efficiency in Action Award in the Medium Commercial category.

In 2022 the District partnered with the Quadra Island Climate Action Network to host a small grid-tie solar PV array on the roof of Quadra Elementary School. The array has been in successful operation the past year with no issues.

Executive Sign-off:

[All PSOs, including Small Emitters, must have their final report signed by a senior official, such as CEO, COO or Superintendent]

	MAY 26, 2023
Signature	Date
JEREMY MORROW	SUPERINTENDENT
Name (please print)	Title

[Please email your signed report to Carbon.Neutral@gov.bc.ca by no later than May 31, 2023]