

School District 72 (Campbell River) 2023 PSO Climate Change Accountability Report



CAMPBELL RIVER School District 72

Title: 2023 PSO Climate Change Accountability Report

Organization: School District 72 (Campbell River)

PART 1. Legislative Reporting Requirements

Declaration statement: This PSO Climate Change Accountability Report for the period January 1, 2023 to December 31, 2023 summarizes our greenhouse gas (GHG) emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2023 to minimize our GHG emissions, and our plans to continue reducing emissions in 2024 and beyond.

Emission Reductions: Actions & Plans

In 2023 the District continued to invest in and prioritize projects that reduce our overall energy use and GHG emissions including major retrofits to HVAC systems at three (3) schools and the sourcing of the District's first electric school bus.

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

The District always seeks to achieve improved efficiency and consumption reductions on all major HVAC lifecycle replacements and upgrades. Completed 2023 projects with the highest energy conservation impacts are summarized in the following table:

Location	Description	Cost	Funding Source(s)	Comments
Quadra Elementary	Mechanical upgrade for East Block and Gym (Phase 2)	\$413,942	Ministry of Education – School	Life cycle replacement of HVAC equipment and DDC controls, transition to classroom unit

			Enhancement Program	ventilators which provide improved ventilation.
Southgate Middle	Mechanical upgrade for C Wing	\$459,252	Ministry of Education – School Enhancement Program	Life cycle replacement of HVAC equipment and DDC controls, transition to classroom unit ventilators which provide improved ventilation.
Sayward School	Major mechanical upgrade	\$501,410	Ministry of Education – Carbon Neutral Capital Program	Replacement of boilers, ERV system upgrade, DDC controls upgrade. System is on propane and saw substantially improved performance.
Sandowne Elementary	HVAC Controls Upgrade	\$46,771	Ministry of Education – Annual Facilities Grant	Controls and programming upgrade.
Cortes School	HVAC Controls Upgrade – Pre Design	\$91,000	Ministry of Education – Annual Facilities Grant	Engineering design work for Phase 1 and 2 of planned major HVAC upgrade.

Planned 2024 projects with the highest energy conservation opportunities are summarized in the following table:

Location	Description	Preliminary Budget	Funding Source(s)	Comments
Sandowne Elementary	HVAC Upgrade	\$603,510	Ministry of Education – Carbon Neutral Capital Program	Mechanical upgrade classrooms 17-23.
Sayward School	Life Cycle replacement of flat roof	\$900,000	Ministry of Education – School Enhancement Program	Replacement of approximately 18,000 sq ft of flat roof. Substantially improved roof R-value through increased insulation

				and reflectivity packaged with added fall safety features.
District-wide	Third Party Energy Management and Controls Recommissioning	\$85,000	Ministry of Education – Annual Facilities Grant	The District is engaging with a third party energy management company with specialization in schools to provide energy management services and controls recommissioning.

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

In 2023 the District secured funding for and ordered our first electric school bus which is set to be received in 2024. Top up grant funding from the national Zero Emission Transit Fund has been pre-approved for an additional two buses for 2024 and 2025. Two level 3 charging stations have been installed at the Bus Garage and an additional two (2) level 3 charging stations have been installed at Sayward Elementary in anticipation of the next phase of electric bus roll out. The District has acquired an electric Ford Transit delivery vehicle for the new Feeding Futures program which also reduces gas consumption in the white fleet.

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.

2023 GHG Emissions and Offsets Summary Table

School District 72 (Campbell River) 2023 GHG Emissions and Offsets Summary	
GHG emissions for the period January 1 - December 31, 2023	
Total BioCO ₂	24
Total Emissions (tCO ₂ e)	2182
Total Offsets (tCO ₂ e)	1762
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	0
Grand Total Offsets for the 2023 Reporting Year	
Grand Total Offsets to be Retired for 2023 Reporting Year (tCO ₂ e)	1762
Offset Investment (\$)	\$44050

Retirement of Offsets:

In accordance with the requirements of the *Climate Change Accountability Act* and the 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 2023 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 or window coverings 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.

In 2023 some specific measures were taken that address climate risk:

- Seven (7) new childcare centers were in the process of being constructed, all are serviced with air source heat pumps which provide cooling.
- Window coverings were installed at 5 schools with a total expenditure of \$90,000 funded from the Annual Facilities Grant.
- Grant funding was secured for design of a retention pond / natural drainage system at the Southgate Middle School property.

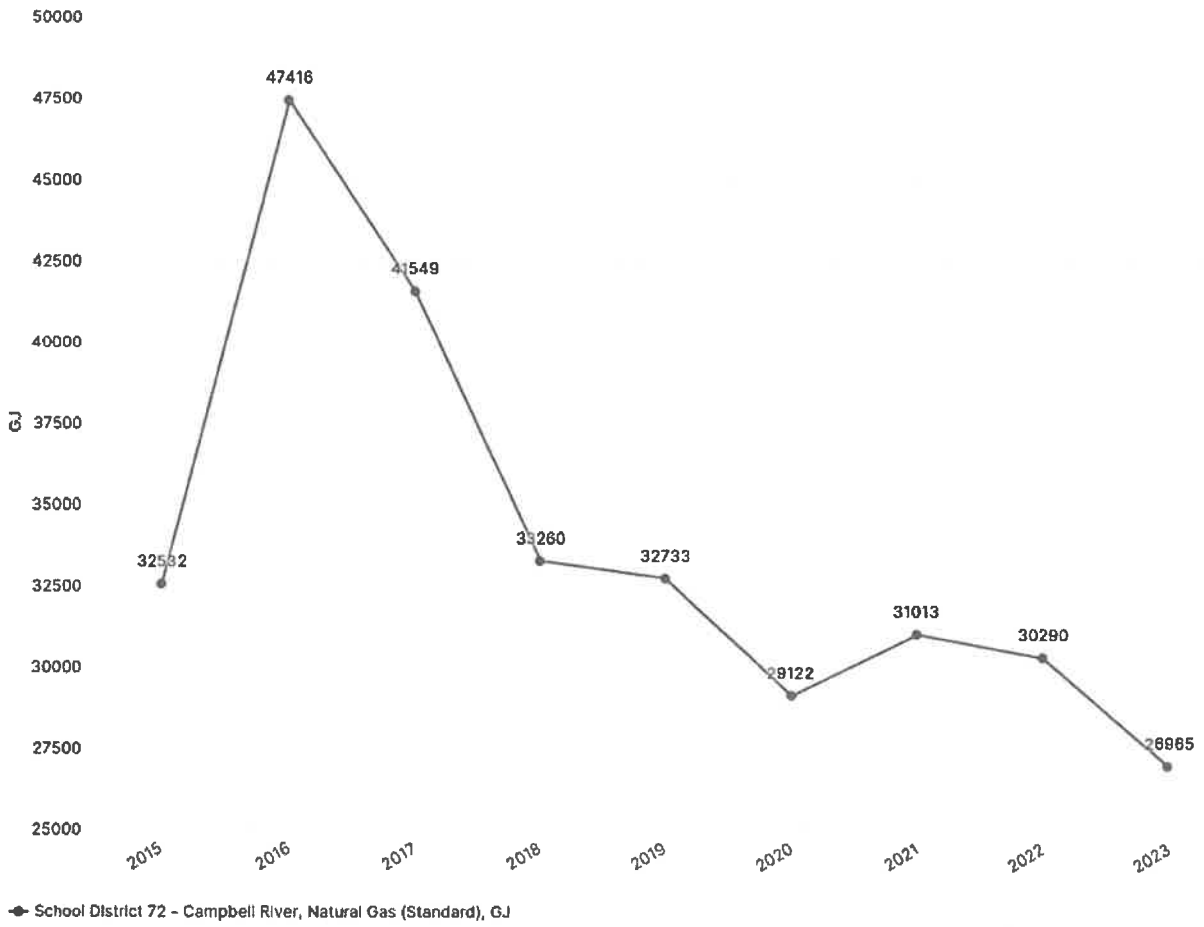
2B. Other Sustainability Initiatives

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

The District's use of natural gas for heating of schools has dropped substantially over the previous 10 year period including an 11% decrease in 2023 over 2022 levels from 30,290 GJ to 26,965 GJ and down from a 10 year high of 47,416 GJ in 2016. This reduction is a result of ongoing efficiency updates and projects. We have seen an overall reduction of natural gas every year since 2016 with the exception of 2021 due to the reduced usage during the 2020 shutdown.



Executive Sign-off:


MAY 30, 2024

 Signature Date

KEVIN PATRICK SECRETARY-TREASURER.

 Name (please print) Title