

2022

Public Sector Organization

# Climate Change Accountability Report



**Sooke School District**  
Shaping Tomorrow Today

## DECLARATION

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 reduce our GHG emissions, and our plans to continue reducing emissions in 2023 and beyond.

## OVERVIEW

SD62 emitted 2,008 tCO<sub>2</sub>e in 2022, across buildings, mobile (fleet), and paper consumption. Figure 1 shows the breakdown per type for the 2022 year. Of this consumption, 359 tCO<sub>2</sub>e is exempt under the Carbon Neutral Government guidelines. To achieve carbon neutrality, SD62 paid \$41,213 + GST to offset the remaining 1,649 tCO<sub>2</sub>e of carbon for 2022.

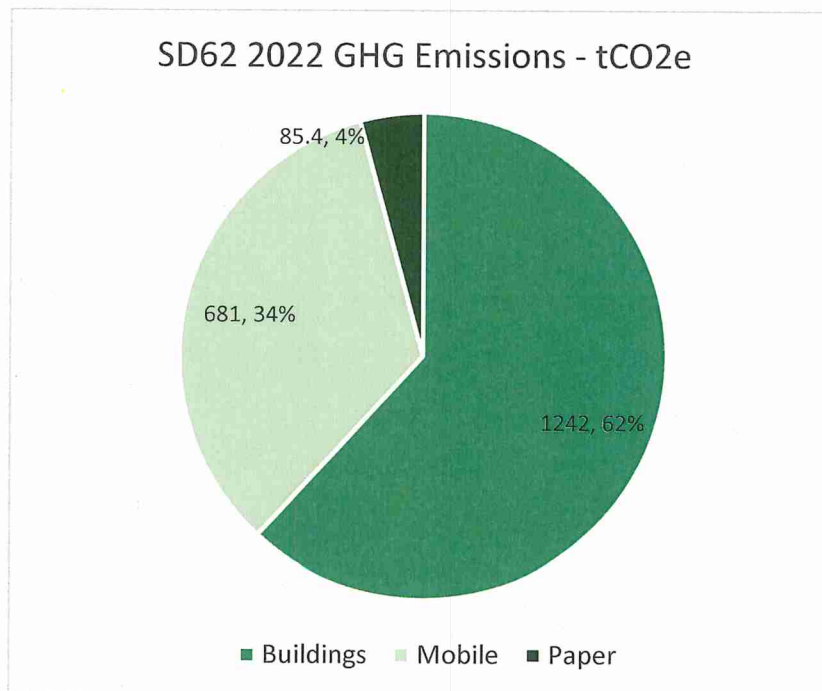


Figure 1 2022 GHG emissions by type.

## EMISSION REDUCTIONS: ACTIONS & PLANS

In 2021, SD62 created an Energy and Sustainability Plan. The plan describes strategies, goals, roadmaps, and recommendations to achieve future energy savings and greenhouse gas emission reductions. GHG reduction targets for BC's education sector are summarized below, along with SD62's 2010 Baseline and 2022 current performance.

Table 1: SD62 sectoral GHG targets. 2030 milestone with respect to 2010 baseline. <sup>1</sup>

Milestone	Facilities	Fleet (Mobile)	Paper	Total
Target Reduction by 2030	59 - 64%	27 - 32%	59 - 64%	
Target GHGs by 2030, tCO <sub>2</sub> e	863 - 757	513 - 478	43 - 38	1,419 - 1,274
SD62 2010 Baseline, tCO <sub>2</sub> e	2104	703	106	2913
SD62 2022, tCO <sub>2</sub> e	1242	681	85	2202
2022, % change from base year	41%	3%	19%	31%

**Error! Reference source not found.** shows SD62's historic annual GHG emission trends including the 2030 climate action goal. Overall reductions for 2022 with respect to the 2010 baseline are 31%. This reduction spans the categories by 41%, 3%, and 19% for buildings, mobile (fleet), and paper respectively. The illustration shows that despite the increase in student population and facilities, SD62 continues to reduce their carbon footprint.

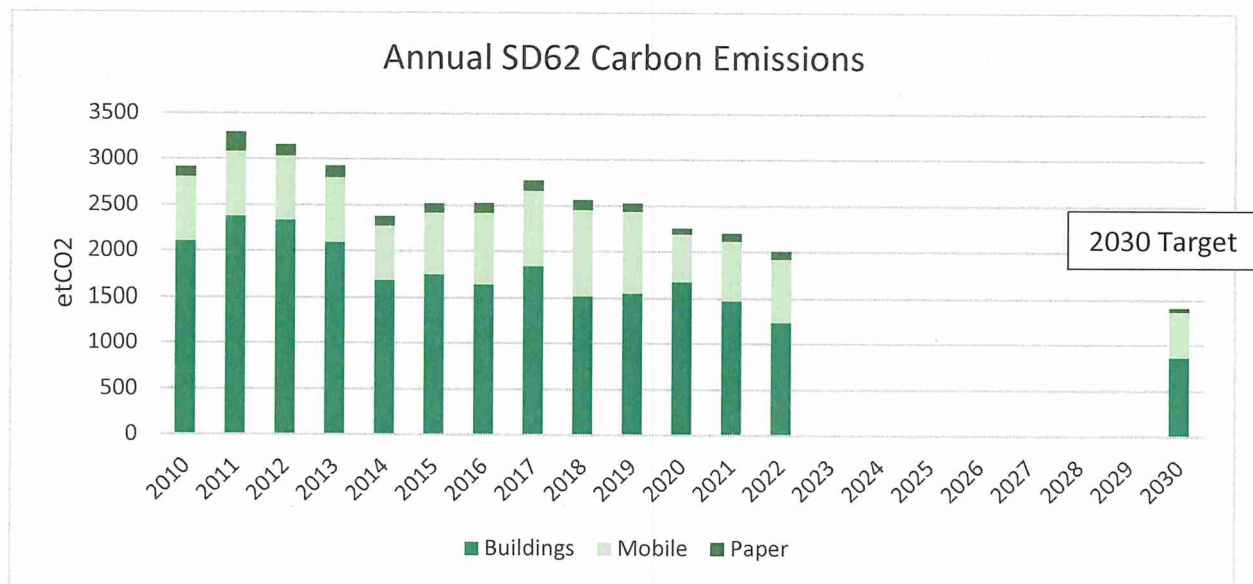


Figure 2: SD62 Historic GHG emissions including 2030 target.

<sup>1</sup> <https://news.gov.bc.ca/releases/2021ENV0022-000561>

## BUILDINGS

Buildings constitute SD62's largest GHG emissions, and therefore require the largest capital investment to achieve desired reductions. SD62 continues its success in securing ministry funding through the School Enhancement Program and Carbon Neutral Capital Program. Figure 3 summarizes 2022 completed projects including actual GHG reductions in 2022 compared to 2021.

Site	Upgrade	Annual reduction (tCo2e, %)
Spencer Middle	Electrification of heating system with an Air Source Heat Pump. Phase 2 of 3 completed.	72t, 54%
Edward Milne Community	Building Automation replacement	53t, 28%
Royal Bay Secondary	Serviced ASHP and HRV	17t, 40%
David Cameron Elementary	Boiler Replacement	9t, 22%

Figure 3: SD62 2022 completed projects and associated realized GHG reductions.

Summer 2023 will see the completion of Phase 3 at Spencer Miller School. This phase includes the upgrade of the chiller circulators and a Building Automation System upgrade. Multiple small lighting upgrades to LED technology will also be completed.

Projects being planned for 2024 and beyond are summarized below.

Upgrade	Sites
Heating plant retrofit	Willway Elementary School Savory Elementary School Wishart Elementary Crystal View Elementary Happy Valley Elementary Ruth King Elementary
Unit ventilator replacement Electrification – Natural gas furnace to air source heat pump	John Muir Elementary Willway Elementary School Millstream elementary Sangster Elementary Saseenos Elementary Edward Milne Secondary

**FLEET**

2023 will see an expansion of SD62's yellow fleet with the addition of seven electric buses. Planning for a white fleet EV transition is also underway.

**PAPER**

A reduction in paper consumption will be advocated by an ongoing "digital" vs printing campaign. The purchase of 30%-100% recycled content paper is also continuing to increase.



## SUMMARY TABLE

### SD62 2022 GHG Emissions and Offsets Summary

#### GHG emissions for the period January 1 - December 31, 2022

Total BioCO <sub>2</sub>	26
Total Emissions (tCO <sub>2</sub> e)	2,007
Total Offsets (tCO <sub>2</sub> e)	1,649

#### Adjustments to Offset Required GHG Emissions Reported in Prior Years

Total Offsets Adjustment (tCO <sub>2</sub> e)	0
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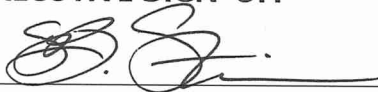
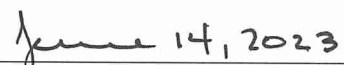
#### Grand Total Offsets for the 2022 Reporting Year

Grand Total Offsets to be Retired for 2022 Reporting Year (tCO <sub>2</sub> e)	1,649
Offset Investment (\$25 per tCO <sub>2</sub> e)	\$ 41,225

## RETIREMENT OF OFFSETS

In accordance with the requirements of the *Climate Change Accountability Act* and Carbon Neutral Government Regulation, School District #62 (Sooke) (**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.

## EXECUTIVE SIGN-OFF

	
Signature	Date
Scott Stinson	Superintendent / CEO
Name (Please print)	Title