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# THE CLIMATE CHANGE ACCOUNTABILITY REPORT

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2020



**SOOKE**  
**SCHOOLS** **62**  
Shaping Tomorrow Today

**Title:** 2020 PSO Climate Change Accountability Report

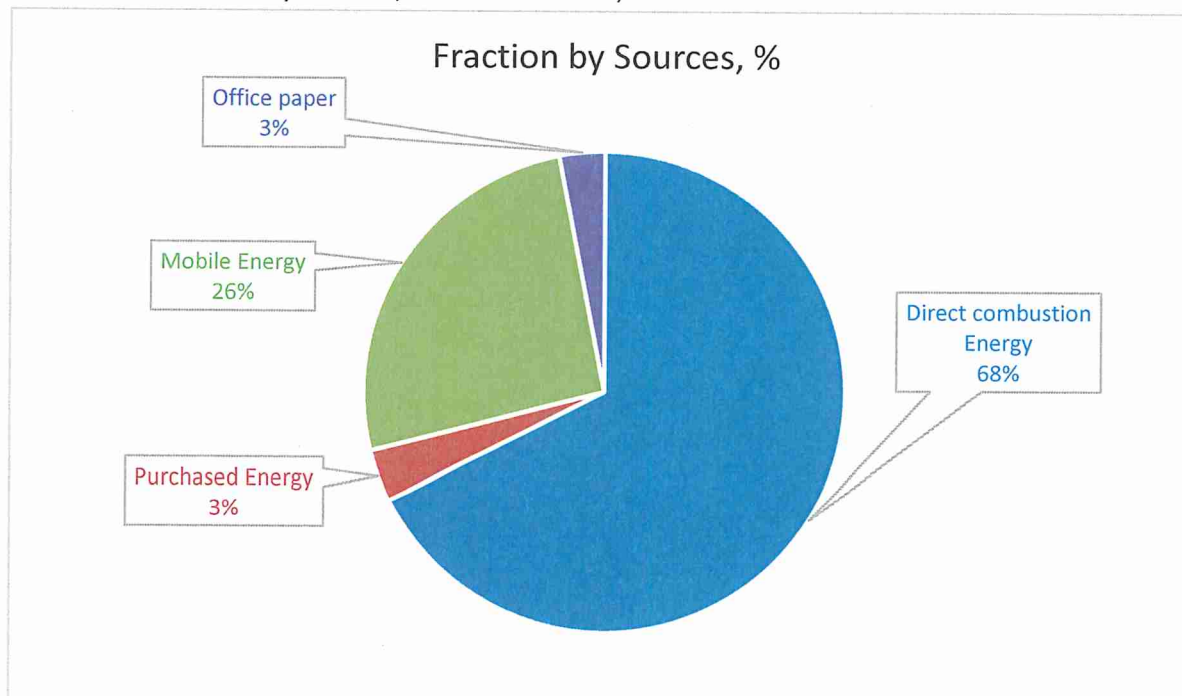
**Organization:** School District No.62(Sooke)

**Declaration statement:** This Climate Change Accountability Report for the period January 1, 2020 to December 31, 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.

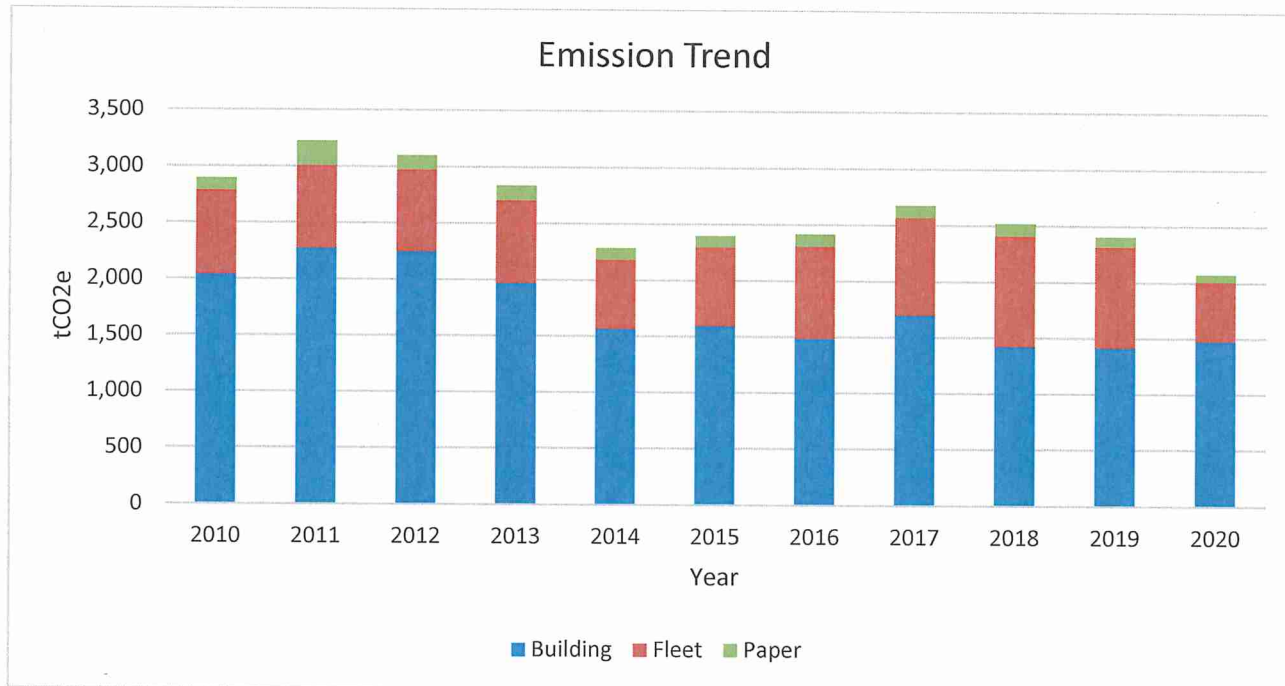
**Overview:**

To achieve carbon neutrality in the 2020 calendar year, School District applied carbon offsets of 1,701 tonnes of carbon dioxide(tCO<sub>2</sub>e) with prior year's adjustment (-)21 tCO<sub>2</sub>e included, in addition exempt offset of 352 tCO<sub>2</sub>e was identified for total emissions of 2,098 tCO<sub>2</sub>e. School District No.62(Sooke)s' total offset investment is \$42,525 with GST excluded for the required offsets of 1,701 tCO<sub>2</sub>e for the 2020 reporting year.

< Emissions fraction by sources, total emissions 2,098 tCO<sub>2</sub>e >



## < Emissions history since 2010 >



SD62 has reduced emissions by 13 % in 2019 based on 2010. In 2020, emissions are lower than usual due to reduced school bus running hours related to COVID-19.

### Actions taken in 2020

#### Upgrading unit ventilators at Dunsmuir Middle School

Phase two of replacing low efficiency make-up air handling units at past useful life for 15 classrooms with full DDC control installed. It enables scheduling with various heating and cooling set points to reduce operation hours and natural gas consumption.

#### Replacing single-glazed and aging windows at Dunsmuir Middle School

Phase two of a two phase project to replace all single-pane windows with double-pane windows to increase the R value of the building envelope.

#### Upgrading DDC controllers at Edward Milne Community School

Old controllers of VAVs in the classrooms and air handling units have been replaced with upgraded controllers to have full monitoring and control function to optimize operation of heating valves and air dampers. CO2 sensors have been added for CO2 demand control of ventilation air.

#### Upgrading DDC controllers at Dunsmuir Middle School

Old controllers of unit ventilators replaced with upgraded version to have full monitoring and control function with CO2 sensor added for CO2 demand control.



#### Installing DDC at Millstream/Saseenos/Sangster/Port Renfrew elementary School

New DDC is being installed for the classrooms and furnaces at the four elementary schools. It enables scheduling with various heating and cooling set points to reduce operation hours and natural gas consumption. Projects are expected to be completed in 2<sup>nd</sup> quarter of 2021.

#### Electric School Buses

SD62 has purchased two electric school buses with two Level-2 EV charging stations installed at SD62 Transportation site. Also, SD62 plans to purchase more Electric School buses and white vehicles.

#### Creating Energy Sustainability Plan

SD62 has started creating ESP (Energy Sustainability Plan) to establish targets of greenhouse gas emissions reduction and road maps to implement projects to be a leader in PSO in BC. ESP will be completed in June 2021 and be included in SD62's Strategic Plan.

#### Energy Star Portfolio Manager

SD62 has taken Energy Start Portfolio Manager (ESPM) as the monitoring tool of energy performance and greenhouse gas emission.

#### **Plans to continue reducing emissions in 2021 and beyond**

School District No.62(Sooke) is completing Energy Sustainability Plan with the goal to be a Provincial leader in meeting GHG emission reduction targets set out in Clean BC. In cooperation with direction from the District's Board of Education and Executive we will identify and build strategies for effective energy savings projects planned to reduce GHG, energy use and energy costs. As SD62's expected growth continues, being energy efficient is one of the highest priorities of the School District.

Over the next several years SD62 will be continuing to upgrade old and inefficient heating and cooling systems, building envelopes and lighting grids.

#### Planned projects for 2021

- Completing DDC installation at Millstream/Saseenos/Sangster/Port Renfrew Elementary School
- Completing Energy Sustainability Plan
- Upgrading Roof top units at Spencer Middle School
- Addition of air source heat pumps at Spencer Middle School
- Upgrading Boilers at David Cameron Elementary School

#### Future projects to be completed when resources are available

- Upgrading Boilers at Willway Elementary School, and Savory Elementary School
- Upgrading Roof top units at Willway Elementary School, Board office, Ruth King Elementary, David Cameron Elementary, Dunsmuir Middle School, Savory Elementary, Sooke Elementary, Wishart Elementary School
- Converting natural gas furnaces at Millstream, Sangster, Saseenos, John Muir Elementary Schools to air source heat pumps



# **Emissions and Offset Summary Table:**

School District No.62(Sooke) 2020 GHG Emissions and Offsets	
GHG Emissions created in Calendar Year 2020	
Total Emissions (tCO <sub>2</sub> e)	2,098
Total BioCO <sub>2</sub>	24
Total Offsets (tCO <sub>2</sub> e)	1,722
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO <sub>2</sub> e)	-21
Grand Total Offsets for the 2020 Reporting Year	
Grand Total Offsets (tCO <sub>2</sub> e) to be Retired for 2020 Reporting Year	1,701
Offset Investment (\$25 per tCO <sub>2</sub> e)	\$42,525

## **Retirement of Offsets:**

In accordance with the requirements of the *Climate Change Accountability Act* and Carbon Neutral Government Regulation, School District No.62(Sooke) (**the Organization**) is responsible for arranging the retirement of the offsets obligation reported above for the 2020 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:**



May 13, 2021

Signature

Date

Scott Stinson

Superintendent and CEO

Name (please print)

Title