

2019 Carbon Neutral Action Report

School District No. 8 - Kootenay Lake

Prepared: May 29, 2020

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DECLARATION STATEMENT

Title: 2019 Carbon Neutral Action Report

Organization: Board of Education of School District No. 8 (Kootenay Lake)

Declaration Statement: This Carbon Neutral Action Report for the period January 1, 2019 to December 31, 2019 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2019 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2020 and beyond.

By June 30, 2020 School District No. 8 - Kootenay Lake's final 2019 Carbon Neutral Action Report will be posted to our website at www.sd8.bc.ca.

OVERVIEW

Actions taken in 2019 to minimize emissions:

- SD8's District-Wide efficient lighting project continued, with upgrades to LED fixtures now complete at approximately half of the sites in the District.
- Air Handling Unit (AHU) upgrades completed at Salmo Elementary and South Nelson Elementary.
- A major boiler upgrade was completed at Trafalgar Middle School.
- Performed a District-wide Direct Digital Control (DDC) audit, which improved our ability to monitor and control energy use. Based on the audit, DDC updates and replacements were completed and adjustments made.
- A furnace was replaced at Rosemont Elementary School.
- The Air Handling Unit (AHU) at Crawford Bay Elementary-Secondary School was upgraded.
- Initiated a new photocopy/printing agreement with usage monitoring and controls, to reduced GHGs and paper usage.
- A major windows & doors upgrade project was largely complete at Hume Elementary School to improve energy efficiency, with projection completion in 2020.

Plans to continue reducing emissions in 2020 and beyond:

- An Employee EBike Purchase Program was launched in April, 2020.
- A major mechanical boiler upgrade at South Nelson to be completed by September 2020.
- Phase 1 of a planning development project for a boiler upgrade at Mount Sentinel Secondary School.
- Replacement of 4 furnaces at Rosemont Elementary.
- Replacement of 5 furnaces at Blewett Elementary.
- Replacement of 4 furnaces at Trafalgar Middle School.
- Continue upgrading lighting to LED fixtures throughout the District.
- Exploring the possibility of propane and/or electric busses.
- The next phase of our photocopy/printing software implementation is scheduled for September, 2020, from which we expect further GHG and paper use reductions.
- Electrical upgrade at Trafalgar.

Success stories & initiatives:

- For a full listing of SD8's school and departmental GoGreen Initiatives, please visit <https://www.sd8.bc.ca/go-green>
- Adam Robertson Elementary School: Climate Chasers Club meets each Monday during Lunch recess. The club is coming up with ideas and initiatives to present to staff, PAC, and the students for ways that our school can "go green" and make positive impacts on our environment.
- Blewett Elementary School: Recycle bins in every room – recycled paper is used again.
- Brent Kennedy Elementary School: Piggieposts (Each classroom is collecting food waste in compost buckets. The compost buckets are collected by a Brent Kennedy family that is raising pigs with the food waste).
- Canyon-Lister Elementary School: Few single-use items provided at school meal events- all parents bring their own dishes for their family, and we provide a rinse basin so they can do a quick clean before taking their dishes home again.
- Crawford Bay Elementary-Secondary School: Paper towel recycling bins in each classroom and washroom - for the school compost
- Erickson Elementary: Compostable items going to wetland area developed for learning about the environment and caring for it.
- Hume Elementary: PAC purchased three water bottle filtration/ water fountains. Two are installed with one more to go. The current one says we've saved the equivalent of 54,000 water bottles since installation.
- JV Humphries Elementary-Secondary School: New Position of Special Responsibility - 'Greening JVH' Facilitators' This position is intended for two teachers to work collaboratively as leaders in our school and community in guiding and supporting students.
- Jewett Elementary School: Growing food, collecting & selling mulch, composting.
- LV Rogers Secondary School: Project to bring LVR rooftop solar panels online. Requires voltage inverters, some tech help, maintenance and operations. When these come online they will generate enough power to run our entire tech lab.
- Mt. Sentinel Secondary School: Have 3 thriving Bee Hives and 20+ student beekeepers & we produce approx. 200lbs of Honey a year that is rendered and sold locally.
- Prince Charles Secondary School: Extensive use of Google Classroom platform.
- Redfish Elementary School: Student led Environment Lunch Club - right now focused on reducing single use wrappers and containers.
- Rosemont Elementary School: Very little paper sent home, no newsletters, lots of digital communication.
- Salmo Elementary School: Recycling program, students regularly collect from classrooms.
- Salmo Secondary School: Reduction/elimination of dishes used in cafeteria program.
- South Nelson Elementary School: We have had a litterless lunch during Earth Day week.
- Trafalgar Middle School: We have a Green Thunder group which is becoming a LLE course focused on creating sustainable choices and changes within the building.
- WE Graham Elementary-Secondary School: Following last year's garbage inventory in the school we are working to reduce our garbage production by 20% by the end of the winter term. We now have Garbage Free Wednesdays where students bring garbage free snacks and lunches.

- Wildflower Creston School: Regular bottle drives throughout the year.
- Wildflower Nelson School: Several classrooms throughout the years have had thematic projects relating to natural resources, alternative energies, and social action projects.
- Winlaw Elementary School: Have completed a no plastic in lunches initiatives where every student was given a reusable lunch bag. Prizes were given to students who brought in plastic free lunches
- Board Office: Commitment to use more online forms and resources to reduce printing, and online meeting platforms to reduce emissions due to driving.

EMISSIONS AND OFFSET SUMMARY TABLE

School District No. 8 (Kootenay Lake)'s GHG Emissions and Offsets for 2019	
As per the <u>Directive</u> issued March 31, 2020, each PSO will use their 2018 GHG Emissions as a placeholder for the purposes of their 2019 CNAR.	
Total Emissions (tCO ₂ e)	3,216
Total BioCO ₂	37.6
Total Offsets (tCO ₂ e)	2,348
Offset Investment (\$25 per tCO ₂ e)	\$58,700

RETIREMENT OF OFFSETS STATEMENT

In accordance with the requirements of the Climate Change Accountability Act and Carbon Neutral Government Regulation, School District No. 8 – Kootenay Lake (**the Organization**) is responsible for arranging for the retirement of the offsets obligation reported above for the 2019 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

May 29, 2020

Date

Dr. Christine Perkins

Name

Superintendent & Chief Executive Officer

Title