


# School District #73 (Kamloops-Thompson) - 2018 Carbon Neutral Action Report Overview

## Executive Summary

- School District #73 (Kamloops/Thompson) has been working to reduce greenhouse gas emissions and to reduce utility consumption in general. Average annual savings of over 5,500,000kwhr of electricity and 20,000GJ of natural gas have been achieved, with resulting utility cost savings of over \$900,000+ per year and greenhouse gas reductions of over 1,500,000kg of CO2 per year.
- This Carbon Neutral Action Report for the period January 1<sup>st</sup>, 2018 to December 31<sup>st</sup>, 2018 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2018 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2019 and beyond.

  
Alison Sidow  
Superintendent

## 2018 Greenhouse Gas Emissions

- Greenhouse Gas Emissions for the 2018 Calendar Year (tCO2e)
  - 6460

## Offsets Applied to Become Carbon Neutral in 2018

- Total offsets purchased: 5256(4718 for 2018 and 538 for 2017)
- Total offset investment: \$131,400 + GST
- Emissions which do not require offsets: 1204

## 2018 Greenhouse Gas Emissions Reductions Activities

- Replaced 11 vehicles and school buses with newer models

## Plans to Continue Reducing Greenhouse Gas Emissions 2019

- School District #73 (Kamloops/Thompson) will continue with its long term plan for energy reduction. We will continue with upgrades to the following systems to further reduce our energy consumption:
  - controls for mechanical systems, as well as upgrades to the mechanical systems including boilers
  - interior lights and exterior lights to LED

## Changes to Greenhouse Gas Emissions & Offsets Reporting from Previous Years

- School District #73 (Kamloops/Thompson) has paid for 538 tonnes of emissions that were not paid for in 2017.

# Part 1: CNAR Survey

## 1. General Information

**Name:** Art McDonald

**Contact Email:** amcdonald@sd73.bc.ca

**Organization Name:** School District No. 73 (Kamloops-Thompson)

**Sector:** School District

**Role** - Please select your role(s) below.

*If more than one individual completed the survey, multiple categories may be selected:*

Energy Manager: No

Sustainability Coordinator: No

Administrative Assistant: No

Facilities/Operations Manager/Coordinator: Yes

CEO/President/Exec Director: No

Treasurer/Accounting: No

Superintendent: No

## A. Stationary Sources (e.g. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

### 1. Actions taken by your organization in 2018 to support emissions reductions from buildings.

#### a) Do you have a strategy to reduce emissions from stationary sources?

Yes

If yes above, what are the main goals?: Reduced energy consumption

#### b) Whether you have a strategy or not (1.a), briefly describe your organization's plans to continue reducing emissions from stationary sources:

##### I. Over the medium-term term (1-5 years)

We will continue to do lighting and mechanical upgrades as funding allows.

##### II. Over the long term (6-10 years)

We will continue to do lighting and mechanical upgrades as funding allows.

I. What % on average of your building portfolio has an energy audit completed each year (if any)?: 0

I. What % on average of your building portfolio is retrofitted each year in the following categories (if any) - click [here](#) for further information:

Minor retrofits (e.g., low cost, easy to implement measures including caulking, lighting, adding roof insulation, etc.) (%): 1

Major retrofits (e.g., replacing windows and doors, equipment replacement such as boilers, etc.) (%): 5

Deep retrofits (e.g., replacing roof, replacing the heating, ventilation and air-conditioning system with a renewable technology like a ground-source heat pump, etc.) (%): 0

I. What % on average of your building portfolio do you re-commission each year?: 0

**f) Do you keep records of Refrigerant gases category and refilling volumes?**

No

I. If yes, have you included the associated emissions in your reporting?

No

**g) How many newly constructed buildings received at least LEED Gold certification in 2018: 0**

I. How many newly constructed buildings did not receive LEED Gold certification?: 0

**B. Mobile Sources (Vehicles, Off-road/portable Equipment): Fuel Combustion:**

**3. Actions taken by your organization in 2018 to support emissions reductions from mobile sources.**

**a) Do you have a strategy to reduce emissions from mobile sources?**

Yes

I. If yes, what are its goals?

Reduce fuel usage and emissions.

**b) Whether you have a strategy or not (3.a), briefly describe your organization's plans to continue reducing emissions from mobile sources:**

I. Over the medium-term term (1-5 years)

As funding allows, we replace vehicles with newer more fuel efficient vehicles.

II. Over the long term (6-10 years)

As funding allows, we replace vehicles with newer more fuel efficient vehicles.

**c) How many fleet vehicles did you purchase from the following categories:**

Gas/diesel vehicle: 11

I. If you purchased new gas/diesel vehicles, can you briefly explain why vehicles from the other categories were not chosen?

All of these vehicles were larger heavy duty trucks and school buses.

We do not have sufficient funds to install infrastructure for things like CNG. We do not have sufficient funds to cover the cost difference for CNG buses, as the Ministry only provides funds for the lowest cost option, which is diesel.

**d) How many existing EV charging stations does your organization have in each category:**

level 2: 0

level 3: 0

How many level 2 stations (if any) are specifically for your fleet vehicles: 0

How many level 3 stations (if any) are specifically for your fleet vehicles: 0

**e) How many EV charging station(s) did you install in 2018 in each category:**

level 2: 0

level 3: 0

How many level 2 stations (if any) were installed specifically for your fleet vehicles: 0

How many level 3 stations (if any) were installed specifically for your fleet vehicles: 0

**4. Please indicate the number of the vehicles in the following vehicle classes that are in your current fleet (including any purchased in 2018):**

Definitions:

- Light duty vehicles (LDVs) are designated primarily for transport of passengers <13 and GVWR<3900kg
- Light duty trucks (LDTs) are designated primarily for transport of light-weight cargo or that are equipped with special features such as four-wheel drive for off-road operation (include SUVs, vans, trucks with a GVWR<3,900kg )
- Heavy duty vehicles (HDV) includes vehicles with a GVWR>3,900 kg (e.g. ¾ tonne pick-up truck, transport trucks)

**a) Light duty vehicles (LDVs)**

Gas/diesel: 11

**b) Light duty trucks (LDTs)**

Gas/diesel: 15

**c) Heavy duty vehicles (HDV)**

Gas/diesel: 62

**5. Please indicate the number of the vehicles you plan to replace in your fleet:**

How much do you budget per LDV?: 25000

How many LDVs do you plan to procure annually over the next 5 years?: 2

How much do you budget per LDT?: 45000

How many LDTs do you plan to replace annually over the next 5 years?: 2

How much do you plan to spend per HDV?: 75000

How many HDVs do you plan to replace annually over the next 5 years?: 4

**C. Office Paper: Indicate which actions your PSO took in 2018:****6. Actions taken by your organization in 2018 to support emissions reductions from paper supplies.****a) Do you have an Office Paper strategy?**

No

**c) Have an awareness campaign focused on reducing office paper use**

No

**d) Purchased alternate source paper (bamboo, hemp, wheat, etc.)**

No