



*This Carbon Neutral Action Report for the period January 1st, 2018 to December 31st, 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. By June 30, 2019 Selkirk College's final Carbon Neutral Action Report will be posted to our website at [selkirk.ca](http://selkirk.ca)*

## OVERVIEW

### ACTIONS TAKEN IN 2018

Selkirk College is committed to implementing practices that promote a healthy natural environment and climate change mitigation in teaching practices, administration, programming, facilities and operations, funding allocations and applied research priorities. Selkirk is dedicated to developing and supporting college-wide and regional solutions to environmental remediation, cleaner transportation, lowered emissions, and waste reduction. During 2018, the College continued to take action towards reducing its carbon emissions with the goal of achieving carbon neutrality.

Renovations at Selkirk's Silver King campus continued throughout 2018. The new carpentry shop, which meets LEED Gold standards (pending final review), opened in September to serve students of our popular Carpentry Program. Renovations to trade shops on the campus included state-of-the-art efficient air handlers with variable speed drives to minimize energy consumption (targeting LEED Silver pending final review).

The new Student Commons Building at Silver King campus has also opened. This new construction meets LEED Gold standards (pending final review), and provides a space for the campus's cafeteria, administration offices, library and bookstore, as well as a large gathering area with study space.

Building control strategies were implemented at Selkirk's Kootenay School of the Arts in Nelson during 2018 to realize low cost energy savings. These recommendations had been identified within the most recent energy audit for this campus. Nearly all lighting in the Castlegar campus gymnasium has now been upgraded to modern, energy efficient LED technologies. Lighting improvements continue College-wide.



Figure 1. The Silver King Campus Student Commons building provides a large gathering area with study space for students.



Figure 2. Members of the Sustainability Committee provide outreach to students and staff.

During the fall of 2018, Selkirk College began utilizing Prism Engineering's online utility software, PUMA (Prism Utility Monitoring and Analysis). This online energy management software now tracks energy use at our main Castlegar campus and at our three campuses in Nelson, allowing us to see historical trends, and set and meet targets.

In February, Selkirk hosted its second annual Sweater Day events on multiple campuses. The heat in campus buildings was turned down and students and staff were encouraged to wear their sweaters to keep warm and show their support for energy conservation. On the Castlegar campus, we save 8.2 gigajoules (GJ) of energy, amounting to nearly 25% savings for just one day.

## SUCCESS STORIES

### OVERALL INITIATIVES WHICH TIE IN WITH GHG EMISSION REDUCTIONS

#### Waste Reduction and Diversion

In summer 2018, new recycling stations were installed on Castlegar and Silver King campuses. The formalization and consistency of Selkirk's three waste streams has contributed to increased awareness and participation in waste diversion initiatives. After an initial learning curve, our recycling stream has shown less contamination. We continue to work to reduce our use of single-use items and of those items that are challenging and costly to recycle.

The compost program at Castlegar campus continued through 2018, diverting nearly 2000 kilograms of organic waste from the landfill.

#### Transportation

In December 2018, the Selkirk College Maintenance Department purchased a Chevrolet Bolt electric vehicle to replace an aging cargo van in the fleet. Selkirk will continue to place an emphasis on electric vehicles for future purchases when they suite the tasks required.

The College's carpool program expanded during the fall of 2018, with an increase in registrations and additional carpool spots installed at both the Castlegar and Silver King campuses. Bike to College events were held in both the spring and fall of 2018, encouraging students and staff to choose this alternative mode of transportation.

#### Outreach

Selkirk continues to nurture a culture of sustainability on campus. The College's student-based Environment Club plays an active role promoting sustainability on campus. During 2018, they carried out a waste audit, hosted several environmental documentary film screenings and volunteered in the community. Selkirk also continues to initiate and strengthen relationships with community groups working hard on climate action.



Figure 3. New recycling and waste stations streamlined Selkirk's waste diversion program.

Figure 4. Selkirk's new Chevrolet Bolt is the latest green addition to the College's fleet.

Figure 5. Dedicated members of Selkirk's student-based Environment Club assist in providing outreach on Selkirk's recycling program.

### PLANS TO CONTINUE REDUCING EMISSIONS IN 2019 AND BEYOND

Selkirk College will continue to work towards carbon neutrality throughout 2019.

Projects will include:

- Feasibility study for solar installation at Castlegar campus
- Upgrades to energy efficient lighting technologies in Castlegar campus library
- Installation of recycling and waste units at all remaining campuses and learning centres
- Energy conservation campaign directed at staff during heating season
- Paper reduction campaign for staff and students

## EMISSIONS AND OFFSETS SUMMARY:

### Selkirk College GHG Emissions and Offsets for 2018 (tCO<sub>2</sub>e)

#### GHG Emissions created in Calendar Year 2018

Total Emissions	1,162
Total BioCO <sub>2</sub>	1.38
Total Offsets (tCO <sub>2</sub> e)	1,161

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

Total Emissions	76
Total Offsets	76

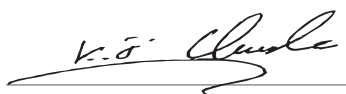
#### Grand Total Offsets for the 2018 Reporting Year

Grand Total Offsets Required	1,237
Total Offset Investment	\$30,925

## RETIREMENT OF OFFSETS

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, Selkirk College (the Organization) is responsible for arranging for the retirement of the offsets obligation reported above for the 2018 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy 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 21, 2019

DATE

Kerry Clarke

NAME (PLEASE PRINT)

Vice President, College Services, CFO

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