

## Carbon Neutral Action Report – SELKIRK COLLEGE

This is the 2013 Carbon Neutral Action Report (CNAR) for Selkirk College. This report contains our 2013 emissions profile, offsets purchased, the actions we have taken in 2013 to reduce our GHG emissions and our plans to continue reducing emissions in 2014 and beyond.

By June 30, 2014, Selkirk College’s final CNAR will be posted to our website at [www.selkirk.ca](http://www.selkirk.ca)

In 2013, Selkirk College upgraded the boiler plants at two of its facilities. The main Castlegar campus 40 year old heating plant was upgraded to a hybrid system consisting of two high efficiency natural gas boilers and two heat pumps. The heat pumps provide additional space heating by extracting heat from an aquifer. Variable speed drives were also installed on heating zone circulation pumps to reduce pumping electrical energy use. Initial natural gas savings are conservatively estimated at 20%. The boiler at our Mary Hall facility in Nelson was also upgraded with two smaller, high efficiency condensing boilers to replace an older boiler operating at less than 80% efficiency. Large hot water heaters were also replaced with new, efficient units.

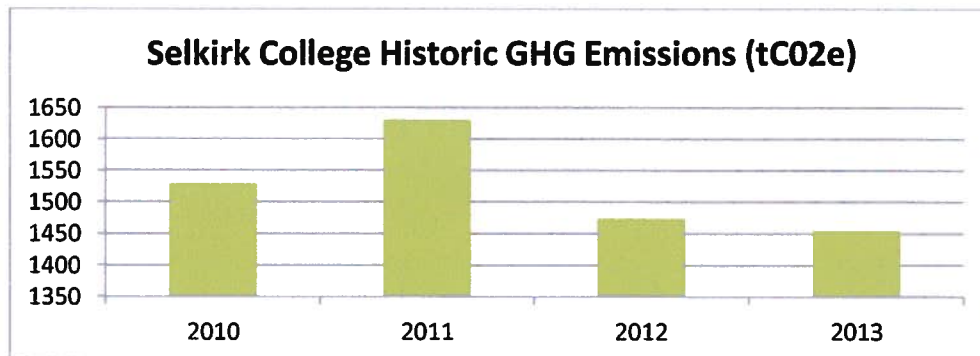
Numerous lighting upgrades and retrofits were also completed. Exterior building lights were upgraded to LED as well as some interior lighting. Approximately 100 T-12 florescent light fixtures were replaced with T-8 or T-5 style fixtures.

We will be continuing with LED lighting upgrades in the coming year.

Building controls to allow for improved temperature control and reduced energy use through nighttime setbacks were installed at our Mary Hall facility. Building controls were optimized in general at our Castlegar campus and this will be a focal point for us for all our facilities in 2014 and 2015.

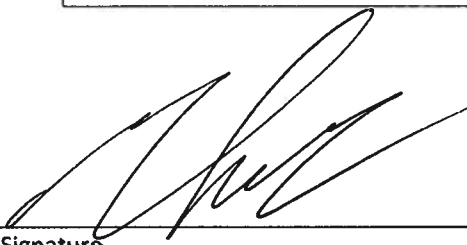
We also plan to complete detailed energy audits of our two larger campuses in 2014. The information will allow us to identify and prioritize which areas to target to maximize GHG reduction.

Sustainability and the reduction of our ecological footprint is part of Selkirk College’s Vision statement. One of the College’s strategic directions is to have state of the art facilities not only for learning, but for a reduced environmental impact. Selkirk College is committed to reducing its GHG emissions by at least 33% by 2020 compared to 2007 emission levels.



**Emissions and Offsets Summary:**

<b>Selkirk College GHG Emissions and Offsets for 2013 (TCO2E)</b>	
<b>GHG Emissions created in calendar year 2013 (from SMARTTool Homepage)</b>	
Total Emissions	1,454
Total Emissions for Offsets	1,453
<b>Adjustments to GHG Emissions Reported in Previous Years (from SMARTTool Homepage)</b>	
Total Emissions	49
Total Emissions for Offsets	49
<b>Credit owing from PCT at end of 2012 reporting year (if applicable – from May 15 Invoice):</b>	
Credit Owing	0
<b>Total Emissions for Offsets for the 2013 Reporting Year (from Offset Invoice):</b>	<b>1,502</b>



Signature

2014/05/30

Date

GARY LEIER

Name (please print)

Acting V.P. Administration.

Title