

2021Carbon Neutral Action Report



Northern Lights
College

This Carbon Neutral Action Report for the period January 1st to December 31st, 2021 summarizes our emissions profile, the amount of offsets purchased to reach net zero emissions, the actions we have taken in 2021 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2022 and beyond.



Overview/Executive Summary

Northern Lights College continues with our commitment towards carbon neutrality.



Key Actions Taken in 2021 to Reduce Emissions:

Buildings

- Indoor lighting is continued to be retro fitted with LED in all areas of the College and its Campus's.
- Solar array on the NLC Farm student housing.
- Boiler upgrade and refit on the Fort St John Main Campus and ITC buildings with phase 2 for ITC starting in 2022.
- Dawson Creek Main Campus building boiler upgrade. Replacing the existing boilers with one Viessmann and 8 IBC units (a Vancouver based company) which will help maximize our building's energy saving and environmental impact.



Fleet

- We did not replace any of our fleet vehicles, we are however looking into how well hybrid models of vehicles work in colder climates for future purchasing considerations.

Other Items

- Northern Lights College continues to use recycled copy paper and when not available uses “FSC Certified” paper
- Seeking ways to reduce the use of paper by copying 2 sided, and making applicable resources “paperless”
- Our Janitorial Department continues to use environmentally friendly cleaning products
- Planting more trees on the Fort St. John and Dawson Creek Campus’s.

Carbon Neutrality Linked to NLC’s Mandate

We continue to practice and promote principles that protect and sustain our natural environment, for Students, Programing, People and Cultures.

Broader Sustainability Goals for NLC for 2022-2023

- Replacing water fountains with bottle fillers that keep track of how many times they are used, giving us the availability to see how many bottles are being saved. The number of bottles that were refilled have been over 105,540 in the last four years.
- Solar projects are underway for our Trades building with it being a multi year, multi phase project.
- Phase 3 of the DDC controls update to control temperatures more efficiently in offices, classrooms, and common areas.
- Upgrading boiler and systems of the Forth St John Campus will be in phase 2.
- More trees and shrubbery will be planted to help with the overall look and feel of the Campus's. As well this will help in some areas where erosion could take place.
- Site works to help with drainage and erosion.
- Evaluating where EV's stations will be required and how many will be needed on the Dawson Creek, Fort St John and Chetwynd Campus's
- Adding hybrid vehicles to our fleet

Anticipated Financial, Environmental, or Social Benefits of Reducing Energy Use and/or GHG Emissions

Financial and Environmental – with the addition of the solar array on the NLC farm we have already seen a decrease in our BC Hydro billing. We have also noticed that power produced from the array flowing back onto the grid.



Social Benefits – Adding useable green space to sit, walk and enjoy the outdoors is a project that we are working on for the benefit of the environment and over health of staff, students and general public is a goal NLC is working towards for the future.

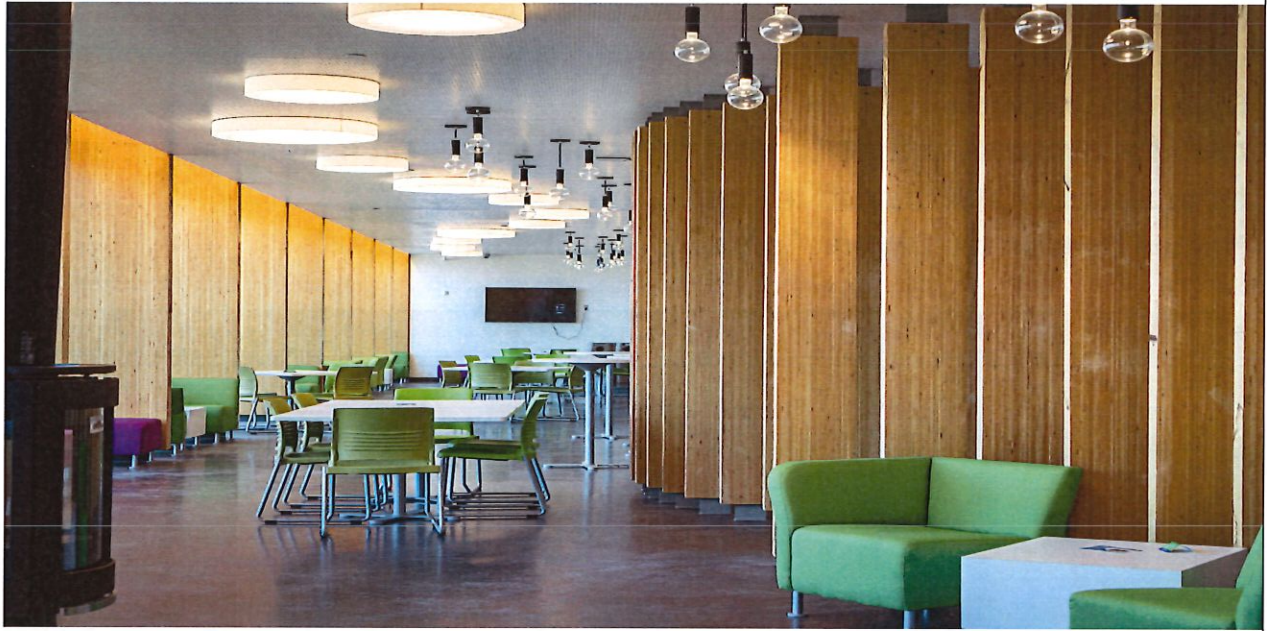


Efforts made to Reduce Emissions and Improve Overall Sustainability

- Upgrading boiler projects on the Dawson Creek and Fort St John Campus in 2021. Which will help maximize our building's energy saving and environmental impact
- Continue to use recyclable copy paper and/or paper that is "FSC-Certified"
- Reduce the amount of cleaning products we use, many of which can be used for multiple applications and switching over to more environmentally friendly supplies.

- Reduce lighting at night in buildings not being used.
- Encourage using environmentally safe products wherever and whenever possible
- Encourage recycling
- Added a solar array at the NLC Farm for use in the student housing there greatly reduced electrical energy off the grid.
- Planted trees on the Dawson Creek and Fort St. John Campus's





Northern Lights College 2021 GHG Emissions and Offsets Summary	
GHG Emissions created in Calendar Year 2021	
Total Emissions (tCO ₂ e)	2058
Total BioCO ₂	2.50
Total Offsets (tCO ₂ e)	2055
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	-963
Grand Total Offsets for the 2021 Reporting Year	
Grand Total Offsets (tCO ₂ e) to be Retired for 2021 Reporting Year	1092
Offset Investment (\$25 per tCO ₂ e) [Grand Total Offsets to be Retired x \$25/tCO ₂ e]	27.30

In accordance with the requirements of the *Climate Change Accountability Act* and Carbon Neutral Government Regulation, Northern Lights College (**the Organization**) is responsible for arranging for the retirement of the offsets obligation reported above for the 2021 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:

Andrea Graff

May 25, 2022

Signature

Date

Andrea Graff

VP Finance: Corporate Services

Name (please print)

Title