



NWCC

2017 Carbon Neutral Action Report





Executive Summary

Northwest Community College is pleased to submit its 2017 Carbon Neutral Action Plan. This year's report contains our 2017 emissions profile, offsets purchased, the actions we have taken in 2017 to reduce our GHG emissions and our plans to continue reducing emissions. By June 30th Northwest Community College's final CNAR will be posted to our website at www.nwcc.bc.ca.

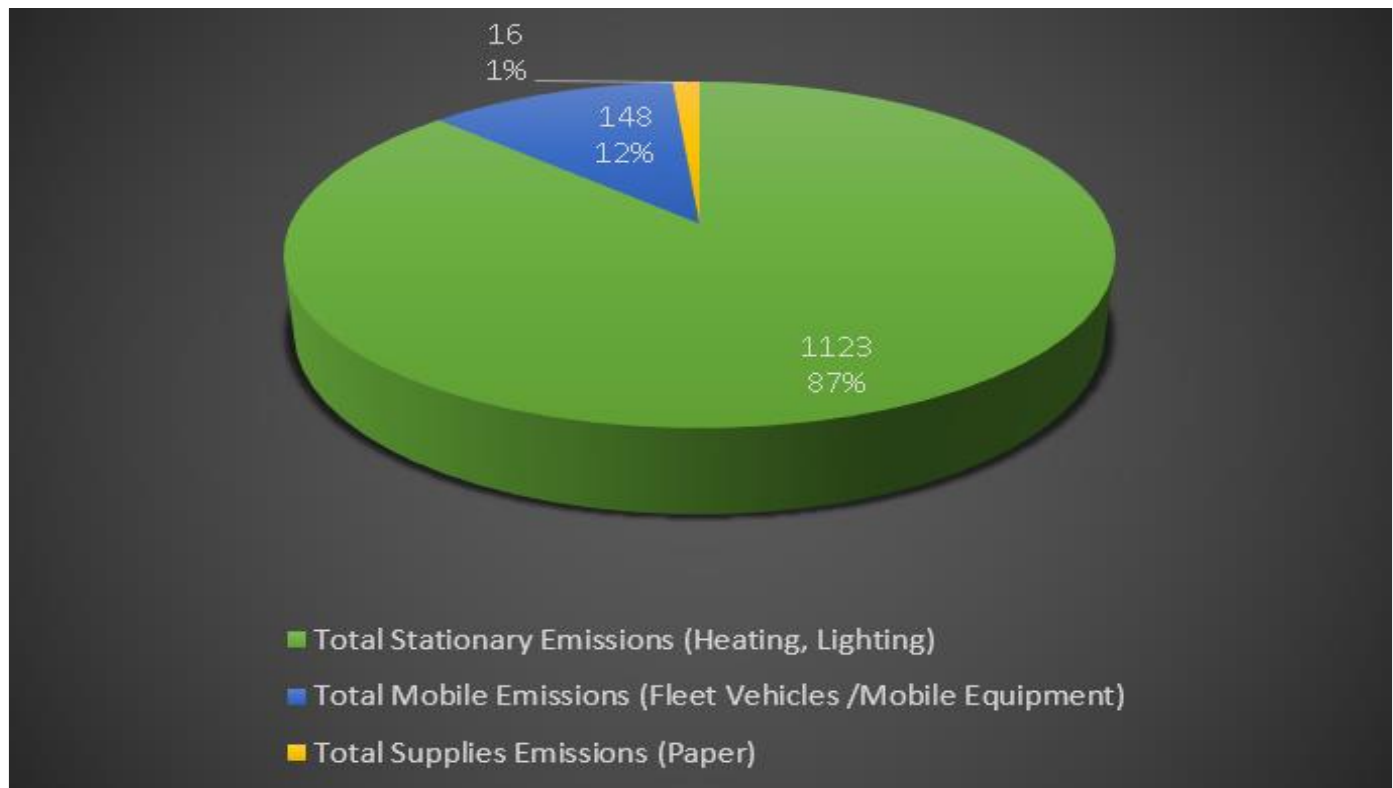
Northwest Community College continues to establish adventurous learning pathways for our students by creating experiential classrooms that feature our stunning locale. By exploring our diverse regional ecosystems, we can blend academic pursuits while modelling positive environmental stewardship. Our local environment is frequently our classroom which highlights the importance of developing projects with the goal of reducing our carbon footprint.

In 2017 we had a slight increase in our total emissions over the previous year primarily in the Mobile Combustion (fleet) category. This increase is directly related to our Trades Building Renewal project and the increased use of our heavy equipment fleet to support the project. With the completion of the project slated for August 2018, it is our expectation that this category will decrease significantly over the remainder of the year. The modernization of the building will also enhance energy savings with upgraded mechanical and electrical systems.

We have continued to work on retrofitting systems within our regional campus buildings with a focus on energy efficiency. Our Prince Rupert campus had an upgrade to the air handling controls to the DDC system. This brings Prince Rupert on line with the rest of the campuses and creates more opportunities for efficient use of energy.

The College will continue to demonstrate its commitment as a post-secondary institution to reduce greenhouse gas emissions, while engaging all members of the college community, by supporting the many initiatives that contribute to sustainability and the reduction of our carbon footprint.

Northwest Community College GHG Emissions and Offset for 2016 (tCO ₂ e)	
GHG Emissions created in Calendar Year 2016	
Total Emissions (tCO ₂ e)	1,288
Total Offsets (tCO ₂ e)	1,283
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (tCO ₂ e)	0
Total Offsets (tCO ₂ e)	0
Grand Total Offsets for the 2016 Reporting Year	
Grand Total Offsets (tCO ₂ e)	1,283



Actions Taken to Reduce Greenhouse Gas Emissions in 2017

- Upgrade of Air Handling Control System in Prince Rupert to bring on line with other campuses
- Replacement of one facilities fleet vehicle to a more fuel efficient model
- Support of Trades Building Renewal project
- Continued upgrades of HVAC systems region wide to create better efficiencies
- Increased utilization of recycling services by local contractors
- Further upgrades of the institution's lighting to LED
- ICS upgrades of video conference applications for instructional and administrative use



Plans to Continue Reducing Greenhouse Gas Emissions in 2018

- Student Housing kitchen renewal project with upgrades to energy efficient appliances.
- Grant application for industrial sized composting unit to defer cafeteria organic waste from the landfill
- Grant application for a solar energy power installation for the Terrace Campus.
- Continued replacement of older fleet vehicles with more fuel efficient and/or electric vehicles.
- Continue to encourage information sharing through shared network access and college portal.
- Continue to transfer paper based departmental forms to electronic forms.

Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, Northwest Community College is responsible for arranging for the retirement of the offsets obligation reported above for the 2016 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Environment 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



May 30, 2018

Signature

Date

Michael Doyle

Vice-President, Corporate Services

Name

Title



Part 1: CNAR Survey

1. General Information

Name: Christine Speidel

Contact Email: cspeidel@nwcc.bc.ca

Organization Name: NWCC

Sector: Post Secondary

2. Stationary Sources (eg. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

During 2017, did your organization take any of the following actions to support emissions reductions from buildings? (please select all that apply)

If you selected "*Performed energy retrofits of the organization's building(s)*":

How many buildings were retrofitted?:

If you selected "*Built, or are building new LEED Gold or other "Green" buildings*":

How many new "Green" buildings?:

Did your Organization perform any retrofits during 2017? Please describe briefly:

We are in the process of a major renovation of our trades building which will result in updated mechanical systems - project completion is August 2018. We continue to update all older buildings with updated systems as budgets permits. All projects are planned with energy savings as a top priority.

2a. Stationary Sources (eg. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

Please briefly describe your organization's plans to continue reducing emissions from its stationary sources:

a) Over the next 1-5 years

Continued project planning to retrofit aging buildings with energy efficient systems (updated HVAC, Lighting)

b) Over the following 6-10 years

Grant application work to fund potential solar installations with projected energy savings of approx. 16%/year.

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

During 2017, did your organization take any of the following actions to support emission reductions from its mobile sources? (please select all that apply)

Replaced existing vehicles with more fuel efficient vehicles (gas/diesel)

If you selected "*Replaced existing vehicles with more fuel efficient vehicles (gas/diesel)*":

How many vehicles?: 1

If you selected "*Replaced existing vehicles with hybrid or electric vehicles*":

How many vehicles?:

3a. Mobile Sources (Vehicles, Off-road/portable Equipment): Fuel Combustion:

Please briefly describe your organization's plans to continue reducing emissions from its mobile sources:

a) Over the next 1-5 years

This is a challenging area as experiential learning is a key focus for our institution which results in more driving as we take students into our outdoor classrooms. We will continue to work on replacing the fleet vehicles with newer more fuel efficient models as budgets permit.

b) Over the following 6-10 years

Monitor the viability of electric options for fleet upgrades

4. Supplies (Paper): Indicate which actions your PSO took in 2017:

During 2017, did your organization take any of the following actions to support emissions reductions from paper supplies? (please select all the apply)

None of the above

If you selected "*Had a policy requiring the purchase of recycled content paper*":

State the required recycled content here (30%, 50%, 100%):

If you selected "*Had a policy requiring the purchase of alternate source paper (bamboo, hemp, wheat, etc)*", which type of alternate source paper did you use?

Please briefly describe your organization's plans to continue reducing emissions associated with its office paper use in future years.

We continue to explore more web based sources to complete both administrative and academic functions at the institution.

5. Other Sustainability Actions

a) Business Travel

During 2017, did your organization take any of the following actions to support emissions reductions from business travel? (please select all that apply)

Encouraged or allowed teleworking or working from home

b) Education/Awareness

During 2017, did your organization have any of the following programs or initiatives to support sustainability education and awareness? (please select all that apply)

Support for professional development on sustainability (e.g. workshops, conferences, training); Supported or provided education to staff about the science of climate change, conservation of water, energy and/or raw materials

c) Other Sustainability Actions

During 2017, did your organization have any of the following programs or initiatives to support sustainability? (please select all that apply)

An operations policy or program to facilitate the reduction and diversion of building occupant waste (e.g., composting, collection of plastics, batteries) from landfills or incineration facilities