

NORTH ISLAND COLLEGE



2018 Carbon Neutral Action Report



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Declaration Statement

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 2018 and beyond.

By June 30, 2019 North Island College's final *Carbon Neutral Action Report* will be posted to our website at <https://www.nic.bc.ca/about-us/the-nic-commitment/reporting/>.

Overview and Executive Summary

North Island College (NIC) is honoured to acknowledge the traditional territories of the combined 35 First Nations of the Nuu-chah-nulth, Kwakwaka'wakw and Coast Salish traditions, on whose traditional and unceded territories the college's campuses are situated.

North Island College is a comprehensive community college that focuses on student success. We proudly serve more than 9,000 students annually at our four campuses, our learning centre and through online and in-community learning. We are committed to excellence in our programs and services. The College's values frame everything we do and express our commitment to our students, communities, residents of our region and ourselves, in part through social and environmental responsibility by actively engaging in the economic and social development of our communities and as active stewards of the unique natural environment in which we reside.

We continued focusing on reducing our carbon impact in 2018. Our curricular and extra-curricular activities at North Island College teach our students to be socially and environmentally responsible citizens on and off campus. Our faculty educates students on sustainability and create unique learning opportunities that make use of our natural environment. From an operations perspective, we have ongoing commitments to refit equipment and upgrade services to improve efficiency and reduce greenhouse gas emissions. North Island College endeavors to improve and test efficient technologies for building infrastructure and communications.

Actions taken to reduce greenhouse gas emissions in 2018 include the following:

- Further efficiencies with our air handling with software upgrades to our DDC Control systems and training to our facilities management staff.
- Installing window film on windows in many of our building to reduce cooling energy use.
- Support for community initiatives such as 'Bike to Work Week' and other local community and government initiatives and awareness campaigns.
- Renewing aging domestic hot water heaters.
- Renewing aging florescent lighting with new LED lighting.
- Adding occupancy sensors to lighting switching to reduce energy usage.

North Island College's greenhouse gas emissions in 2018 were 911 tonnes of tCO₂e. This is a decrease of 190 tonnes (equivalent) from 2017 emissions.

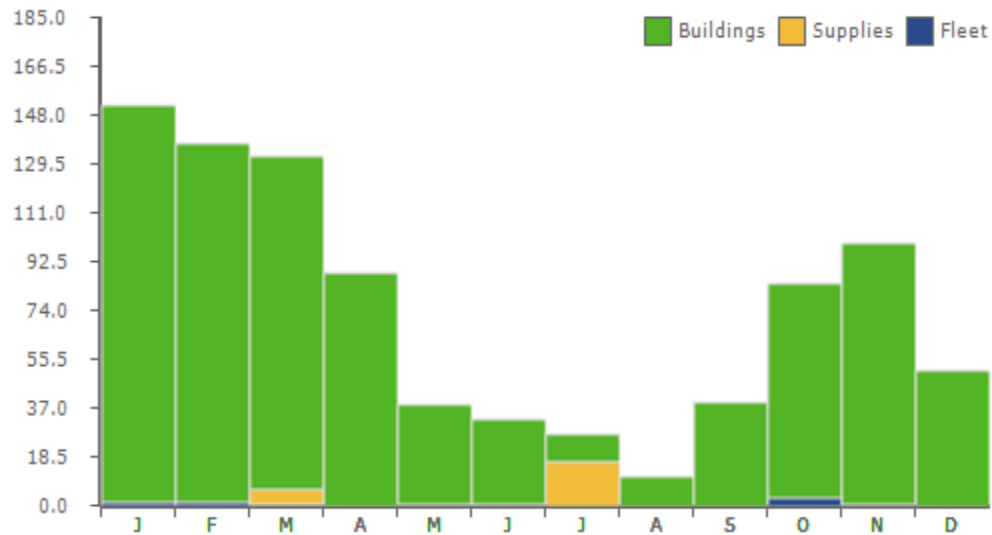
We plan to continue to reduce greenhouse gas emissions through energy conservation by educating and encouraging behavioral change. The greatest portion of the College's greenhouse gas emissions are generated by stationary fuel combustion and electricity. To improve efficiency and reduce these emissions, the College will continue to retrofit equipment and upgrade services. We will also continue to work with BC Hydro to perform energy and lighting retrofits to improve efficiency.



Emissions and Offsets Summary:

Total Emissions Calendar Year 2018 North Island College

Metric tonnes
CO₂ equivalent (tCO₂e)



Click on the bars to view data for each month

North Island College GHG Emissions and Offset for 2018 (TCO ₂ E)	
GHG Emissions created in Calendar Year 2018 (from SMARTTool Homepage):	
Total Emissions (tCO ₂ e)	911
Total Offsets (tCO ₂ e)	911
Adjustments to GHG Emissions Reported in Prior Years (from SMARTTool Homepage):	
Total Emissions (tCO ₂ e)	0
Total Offsets (tCO ₂ e)	0
Grand Total Offsets for the 2018 Reporting Year (from SMARTTool Homepage): (This is the total of emissions that must be offset for Reporting Year 2018)	
Grand Total Offsets (tCO ₂ e)	911

Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, North Island 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 ensuring that these offsets are retired on the Organization's behalf, the Organization will pay 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

Date

May 17, 2019

Name (please print)

Title

Colin Fowler

VP, Finance & Facilities

About North Island College¹



North Island College is a comprehensive community college serving almost 157,000 residents on Vancouver Island and the central BC coast.

NIC was established in 1975 as a primarily distance education institution. It now serves students at Campbell River, Comox Valley, Port Alberni, and Mount Waddington campuses, as well as through many in-community programs delivered in partnership with remote communities across 80,000 km² from Ucluelet on Vancouver Island's West Coast to Bella Coola on the central mainland.

We are distinguished by our commitment to student success through strong partnership agreements with universities and colleges across BC, the US and around the world. NIC has been internationally recognized for its technology-enabled distance learning, and responsive in-community programs.

We proudly serve more than 8,000 students annually. To meet the education and training needs of its region, NIC offers a broad range of programs tailored to the needs of current and future students. Current programs include: adult upgrading (including adult basic education, English language training and access for students with disabilities), university transfer, business, tourism, health care, Fine Arts, Aboriginal education and Industry Training Authority (ITA) approved foundation trades, technical, and apprenticeship training. The college also offers a significant range of sector-specific industry training as well as short-term contract training and a wide range of professional and personal development courses. NIC also hosts and supports ElderCollege, which provides lectures and courses on a wide range of topics at low-cost for individuals 50 years of age and older (55+ at the Comox Valley Campus).

¹ North Island College Plan 2020

Greenhouse Gas Emissions

Under the British Columbia Provincial *Greenhouse Gas Reduction Targets Act*, Chapter 42, the targets established for the purpose of reducing BC greenhouse gas (GHG) tCO₂e emissions are 33% by 2020 & 80% by 2050.

As well, in 2008 the BC Government reviewed and accepted the recommendations of the Climate Action Team, establishing interim GHG reduction targets of 6% below 2007 levels by 2012 and 18% by 2017. Each public sector organization, which North Island College has been categorized as, shall be carbon neutral for the 2010 calendar year and for each subsequent calendar year.

	CO ₂ e Emissions (Tonnes)						
CO ₂ e Emission Source ⁽¹⁾	2018	2017	2016	2015	2014	2013	2012
Stationary Fuel Combustion & Electricity (Buildings)	871.44	1058	808	783	951	1044	1132.43
Supplies (Paper)	23.69	30	62	12	43	19	6.75
Mobile Fuel Combustion (Fleet & Other Mobile Equipment)	15.99	13	10	4	18	11	6.43
Total Carbon Footprint (tCO₂e) ⁽²⁾	911	1,101	880	799	1012	1074	1145.61
Emissions per Building Space (33,120.6 m ²)	0.02	0.03	0.03	0.02	0.03	0.03	n/a

- (1) It was estimated that Fugitive Emissions from cooling equipment do not comprise more than 0.01% of North Island College's total emissions and an ongoing effort to collect or estimate emissions from this source would be disproportionately onerous. For this reason, emissions from this source have been deemed out-of-scope and have not been included in our total greenhouse gas emissions profile.
- (2) Due to rounding values, the total Carbon Footprint of tCO₂e does not add exactly.

As seen from the table above, the vast majority of our carbon emissions are generated through building's stationary fuel combustion and electricity. North Island College's carbon footprint in 2018, in accordance with the Greenhouse Gas Reduction Targets Act (as reported in SMARTTool), was 911 tonnes. This represents a decrease of 190 tonnes from our 2017 footprint. A substantial portion of this decrease was due to a decrease in natural gas consumption.

Energy & Environmental Sustainability

NIC has been a member of the Pan-Canadian Protocol for Sustainability since 2010 and, by signing the protocol; we have pledged to maximize our contribution to a sustainable future. We are committed to our role as a community leader in environmental stewardship.

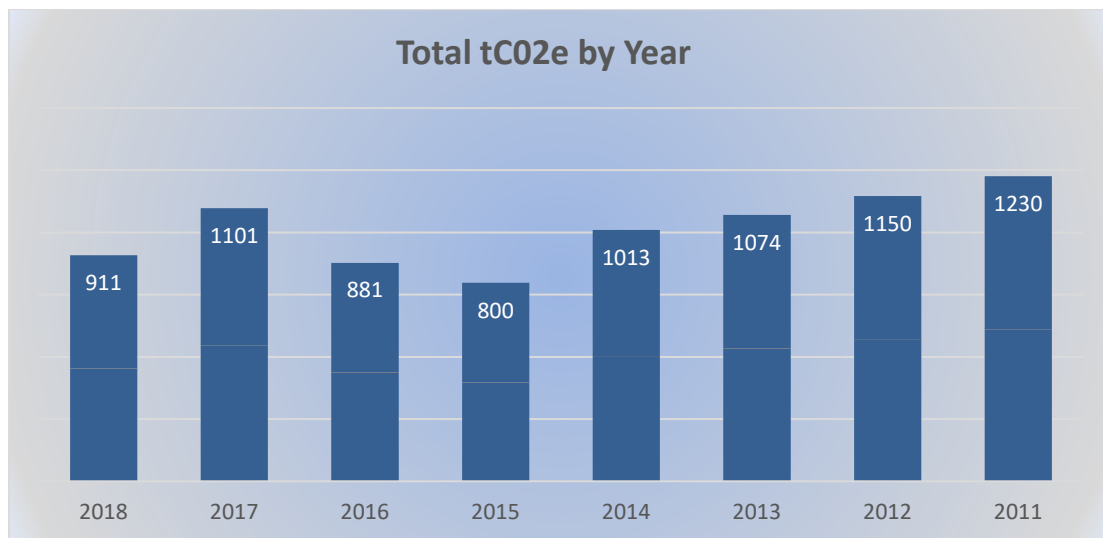
NIC has been a BC Hydro Power Smart Partner since 2002, committing to doing our part to save energy and create a culture of sustainability, adopting the principles of energy efficiency into our ongoing business management practices, and upgrading our existing facilities with energy conservation measures.

Carbon Offsets

North Island College was carbon neutral in 2018. This was achieved through the key achievements for emissions reduction and sustainability and through carbon offsets purchased from the Climate Investment Branch of the Climate Action Secretariat. The in-scope carbon offsets tCO₂e emissions in 2018 amounted to 911 tonnes, based upon the 2018 building energy data, paper use, and fleet information entered into Climate Action Secretariat's SMARTTool data entry program and the GHG measurements based upon this data.

Key Achievements for Emissions Reduction & Sustainability

North Island College's greenhouse gas emissions in 2018 were 911 tonnes of CO₂e (equivalent). Compared to 2011, the results, as of the end of December, 2018, indicate that NIC has reduced energy consumption by 26%.



Actions taken in 2018 to reduce Greenhouse Gas Emissions

NIC is recognized as a leader in interactive TV course offerings, allowing rural students to attend NIC in their local communities.

Green procurement practices and product selections such as enhanced recycled paper content.

A comprehensive waste management program.

Promoting alternative transportation such as bike shelters with lockers, showers, electric vehicle charging stations.

Energy Conservation is a core consideration when completing new expansions, renovating buildings, and daily operations.

Emission Reduction Goals for 2019

The College will continue to educate users and increase awareness of ongoing efforts to become carbon neutral. Projects already in motion for 2019 to decrease carbon offsets and reduce water use include:

- Campbell River Campus Expansion project, commencing spring 2018, with a completion date of November, 2019. The modernization of this building will provide a greatly enhanced learning environment for our students and staff. The opportunity for increased energy savings through upgraded mechanical, structural and electrical systems is also a very beneficial component of this project.
- Preset programming for 'Sweater Day' initiatives at three campuses.
- Covered bicycle storage will support cycle commuting to campuses.
- Adding electric vehicle charging stations to our Comox Valley Campus.





Part 1: CNAR Survey

1. General Information

Name: Michelle Waite

Contact Email: michelle.waite@nic.bc.ca

Organization Name: North Island College

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: Yes

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?

No

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)

All retrofitting projects focus on energy efficiency and reduction.

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

II. Please explain why LEED Gold certification was not obtained.

No newly constructed buildings in 2018.

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?

No

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)

Took steps to drive less than previous years. Continued support of designated car pooling parking areas. Promotion of Bike to Work Week along with the creation and maintenance of covered bike storage areas.

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

Electric Vehicle – EV - (e.g., Nissan Leaf, Chevy Bolt): 0

"Plug In" Electric Vehicle – PHEV (e.g., plug-in Prius, Chevy Volt): 0

Hybrid vehicle – HEV – non "Plug In"- (e.g., Toyota Highlander Hybrid): 0

Hydrogen fuel cell vehicle : 0

Natural gas/propane: 0

Gas/diesel vehicle: 0

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

n/a

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)

Electric Vehicles – EV - (e.g., Nissan Leaf, Chevy Bolt): 0

"Plug In" Electric Vehicle – PHEV -- (e.g., plug-in Prius, Chevy Volt) : 0

Hybrid vehicles – HEV – (e.g., non "Plug In"- older Toyota Prius, Toyota Camry hybrid): 1

Hydrogen fuel cell vehicles: 0

Natural gas/propane: 0

Gas/diesel: 1

b) Light duty trucks (LDTs)

Electric Vehicles – EV : 0

"Plug In" Electric Vehicle – PHEV: 0

Hybrid vehicles – HEV – (e.g., non "Plug In"- older Ford Escape Hybrid, older Chevrolet Silverado pickup hybrid etc): 0

Hydrogen fuel cell vehicles: 0

Natural Gas/propane: 0

Gas/diesel: 2

c) Heavy duty vehicles (HDV)

Gas/diesel: 7

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

b) Whether you have a strategy or not (6.a), briefly describe your organization's plans to continue reducing emissions from paper use:

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

Encouraging use of "Image Now" technology to scan and store documents digitally.
Students continue to pay for photocopier and printer use.
Continue photocopier replacement to multi-function scanning devices.

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

No

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

No