



2014 Carbon Neutral Action Report

nwcc.ca 1.877.277.2288



Executive Summary

Northwest Community College is pleased to submit its 2014 Carbon Neutral Action Plan. This year's report contains our 2014 emissions profile, offsets purchased, the actions we have taken in 2014 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.

Our commitment to sustainability is reflected in NWCC's Key Values and Operating Principles as stated in the institution's 2012-2017 Strategic Plan:

Sustainability

We conduct our business in an environmentally responsible manner and include sound resource practices such as waste reduction, recycling and energy conservation.

NWCC received over \$1.5 Million in provincial funding in 2014 to replace our Terrace campus boilers and heating system. This major infrastructure project commenced in the fall of 2014 and was completed in 2015. The Domestic hot water system was de-coupled from the main boilers as part of this project which will allow NWCC to completely shut down its heating system in the summer months. Overall this project will reduce annual GHG emissions by over 200 tons of CO₂e.

Under the Province's Carbon Neutral Capital plan NWCC applied for and received \$120,000 for lighting upgrades at the College's various campuses. This project commenced in the fall of 2014 and completed in 2015. Overall energy savings will be approximately 170,000 kWh per year.

The College's Evr-Green Dual Port Level 2 Electric Charging Station at the Terrace Campus is available to the college community and members of the public. It is one of only three electric vehicle charging stations in the Terrace area. In addition to the charging station, NWCC's first hybrid electric car has been extensively used in 2014 and is the vehicle of choice for travel in our region.

Further proposals to secure funding under the Carbon Neutral Capital Plan were submitted in 2014 to reinsulate several buildings that were constructed in 1970 as well as a continuation of the College's lighting upgrade program.

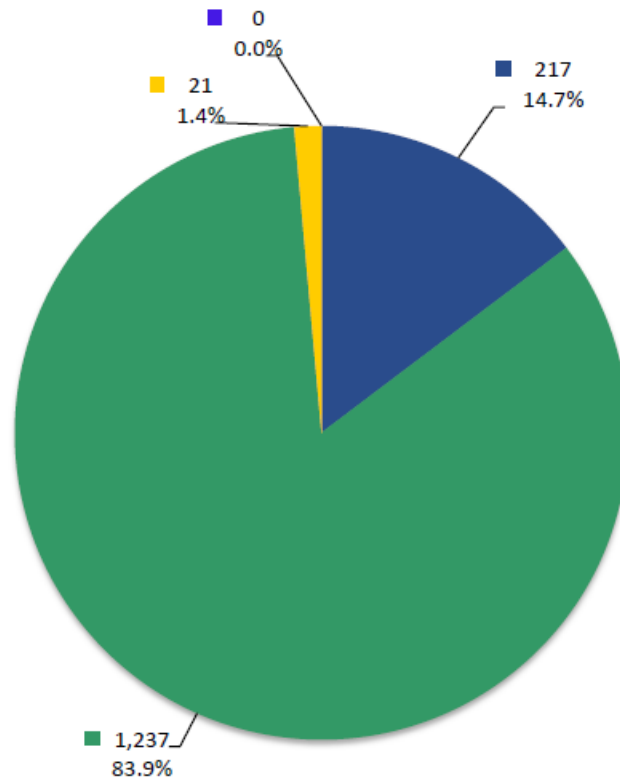
The College will continue to demonstrate its commitment as a post-secondary institution to reduce greenhouse gas emissions, while engaging all members of the college community, by supporting the many initiatives that contribute to sustainability and the reduction of our carbon footprint.



Cathay Sousa
Vice President, Finance & Administration

NWCC is pleased to report that our overall emissions have decreased by 2% over last year's totals. This is the second consecutive year of reporting that NWCC has seen an overall decrease in greenhouse gas emissions.

Northwest Community College Greenhouse Gas Emissions by Source for the 2014 Calendar Year (tCO₂e*)



Total Emissions: 1,475

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)
- Fugitive Sources

Offsets Applied to Become Carbon Neutral in 2014 (Generated April 28, 2015 1:50 PM)

Total offsets required: **1,461**. Total offset investment: **\$36,525**. Emissions which do not require offsets: **14** **

*Tons of carbon dioxide equivalent (tCO₂e) is a standard unit of measure in which all types of greenhouse gases are expressed based on their global warming potential relative to carbon dioxide.

** Under the *Carbon Neutral Government Regulation of the Greenhouse Gas Reduction Targets Act*, all emissions from the sources listed above must be reported. As outlined in the regulation, some emissions do not require offsets.

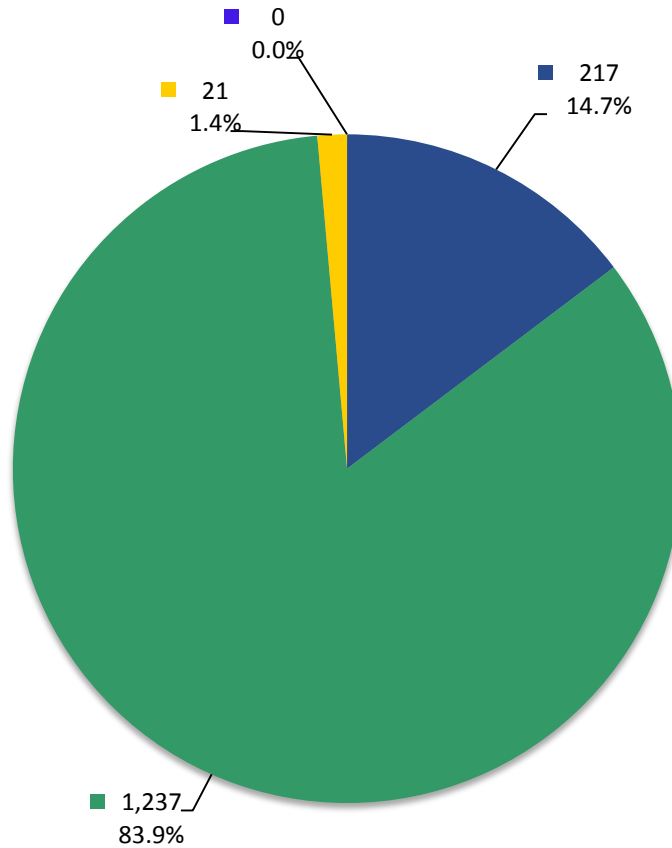
Actions taken to reduce Greenhouse Gas Emissions in 2014

- Installation of two, five million BTU, high efficiency condensing boilers commenced in fall of 2014.
- Installation of high efficiency domestic hot water system for the Terrace campus commenced in the fall of 2014.
- Hybrid Electric Vehicle used as the primary vehicle in the NWCC fleet.
- DDC upgrades for the Terrace campus.
- Upgrade of the Colleges main telephone system to a more energy efficient system.
- Network switch upgrades to energy efficient switches.
- Desktop refreshes to remove older less energy efficient computers.
- Facilities department expanded use of 'tricycle' for inter-campus transportation.
- Payroll department time-sheet process has been converted to an electronic, paperless system.
- Increased utilization of cafeteria food composter by NWCC Food Services programs.

Plans to Continue Reducing Greenhouse Gas Emissions in 2015

- Completion of replacement of the Terrace campus heating and domestic hot water system.
- Further upgrades of the institution's lighting to LED with replacement of 4,500 fluorescent tubes.
- Reinsulation of five buildings built in 1970 in the Terrace campus.
- Continued upgrades of DDC software to ensure optimal performance of our HVAC systems.
- Replace older fleet vehicles with more fuel efficient and/or electric vehicles.
- Purchase of an EcoVehicle for the College's driver training program.
- Continue to encourage information sharing through shared network access and college portal.
- Continue to transfer paper based departmental forms to electronic forms.
- Review of possible window upgrades to several of the College's older buildings.

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Offsets Applied to Become Carbon Neutral in 2014 (Generated June 23, 2015 4:31 PM)

Total offsets required: **1,461**. Total offset investment: **\$36,525**. Emissions which do not require offsets: **14** **

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