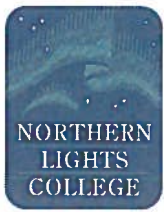


# Northern Lights College

## 2014 Carbon Neutral Action Report



**Centre for Clean Energy Technology (CECET)**



## Northern Lights College

### 2014 Carbon Neutral Action Report

This Carbon Neutral Action Report for the period January 1<sup>st</sup> to December 31<sup>st</sup>, 2014 summarizes our emissions profile, the amount of offsets purchased to reach net zero emissions, the actions we have taking in 2014 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2015 and beyond.

#### **Overview/Executive Summary**

Northern Lights College is continues with our commitment towards carbon neutrality. We are continuing to focus on building improvements with energy audits and upgrades.

#### **Key Actions Taken in 2014 to Reduce Emissions:**

- Upgrade all mechanical systems on the Chetwynd Campus and have already seen a savings.

#### **Carbon Neutrality Linked to NLC's Mandate**

We continue to practice and promote principles that protect and sustain our natural environment.

#### **Broader Sustainability Goals for NLC for 2015-2016**

- Continue to work towards identifying energy saving projects that will reduce our carbon footprint.
- Lighting retro-fit of all the facilities on the Fort St. John Campus, including all exterior lighting.

- Build a new Trades Centre so the very inefficient existing facilities can be replaced.
- Replace windows in the Fort St. John Campus to more energy efficient ones.
- Looking into a implementing a shuttle between the Dawson Creek and Fort St. John Campuses, which would reduce our fleet size.
- Conducting a study into using smaller vehicles (i.e. golf carts) for use on Campus grounds instead of larger vehicles.
- Smaller plans such as putting up idle free zone signs, using rain barrels to catch water for grounds maintenance, planting more trees to offset CO2 levels, using less lights during spring and summer seasons. Educating staff better on being carbon neutral.

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

**Financial and Environmental** – By replacing the old energy intensive facilities with new energy efficient facilities and equipment the college will lower currently high operational and maintenance costs for existing facilities due to poor building performance, lack of insulation and poorly performing mechanical systems.

**Social Benefits** – The new and more efficient Trades Centre building will improve NLC facilities, which will in turn enhance student life and revitalize the Dawson Creek Campus and improve the College’s image and ability at recruitment and retention of students.

### **Efforts made to Reduce Emissions and Improve Overall Sustainability**

- Continue to complete mechanical and electrical renovations to our existing facilities to reduce our energy consumption.
- Continue to complete energy audits on all our campus locations.





# 2014 Carbon Neutral Action Report (CNAR) - Part 2 ACTIONS

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## Organization Name

Northern Lights College

## Actions Taken to Reduce Emissions

### 1) Stationary Fuel Combustion, Electricity (Buildings): Indicate which actions were taken in 2014:

Performed energy retrofits on existing buildings

Yes

Built or are building new LEED Gold or other "Green" buildings.

No

Undertook an evaluation of overall building energy use.

No

Please list any other actions taken to reduce emissions from Buildings:

We are upgrading our HVAC systems to more high efficient ones as funding is available

### 2) Mobile Fleet Combustion (Fleet and other vehicles): Indicate which actions were taken in 2014:

Do you have a fleet?

Yes

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

No

Replaced existing vehicles with hybrid or electric vehicles

No

Reduced the overall number of fleet vehicles

No

Took steps to drive less than last year

Yes

Please list any other actions taken to reduce emission from fleet:

We are encouraging our staff to Car pool to reduce our energy cost on our fleet

**3) Supplies (Paper):Indicate which actions were taken in 2014:**

Used less paper than previous year

Yes

Used only 100% recycled paper

No

Used some recycled paper

Yes

Used alternate source paper (Bamboo, hemp, etc.)

No

Please list any other actions taken to reduce emissions from paper use:

(No response)

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### **Actions Taken to Reduce Emissions - continued**

Explain how you plan to continue minimizing emissions in 2015 and future years:

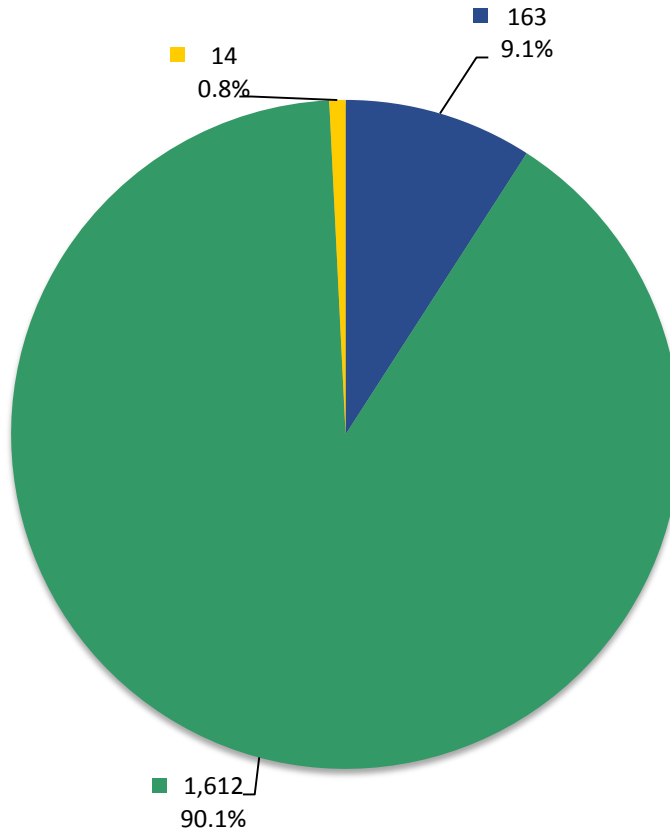
We are currently looking at a shuttle system between our two main campuses. this would not only be safer but we would be able to reduce our fleet size. We are currently trying to put together a business case for this. This would also take changing a culture attitude which would be the greatest challenge

If you wish to list any other "sustainability actions" outside of buildings, fleet, paper and travel check "yes". This reporting is optional.

No



## Northern Lights College Greenhouse Gas Emissions by Source for the 2014 Calendar Year (tCO<sub>2</sub>e\*)



**Total Emissions: 1,789**

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

### Offsets Applied to Become Carbon Neutral in 2014 (Generated June 25, 2015 11:07 AM)

Total offsets required: **1,783**. Total offset investment: **\$44,575**. Emissions which do not require offsets: **6** \*\*

\*Tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) 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.