2014 Carbon Neutral Action Report - BC Emergency Health Services

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

By June 30, 2015 BC Emergency Health Services' final Carbon Neutral Action Report will be posted to our website at <u>www.bcas.ca</u>.

BCEHS Sustainability Goals

BCEHS will act as a leader with respect to environmental stewardship while engaging the healthcare community in a collaborative approach towards sustainability. This will occur through sustainable operations, sustainable facilities and sustainable partnerships.

How carbon neutrality within Fleet Operations, BCAS links to our organization's mandate:

Fleet Operations, BCAS, has a mandate to provide safe, reliable and an efficient ground fleet to support our paramedics. With more than 580 vehicles, ran more than 21.8 million km in 2014, we leave a significant carbon footprint. Small measures at gaining efficiencies in the operation of the ambulance fleet will contribute towards carbon neutrality for the organization.

Actions taken by BCAS to reduce energy use and/or GHG emissions in 2014:

- Idle Reduction System In 2014 BCAS received an additional 51 ambulance equipped with ECOSmart idle reduction technology, bringing the total to 169 Ambulances equipped with this technology. The ECOSmart systems monitor battery condition and patient compartment shutting down an idling ambulance when the engine is not required. It is anticipated a reduction in fuel consumption by 250 litres per ambulance per year in busy urban deployments.
- Aerodynamic Design These new ambulances also feature a redesigned air dam and a narrower body to reduce frontal area to reduce the overall air drag on the ambulance and a reduced conversion weight to improve fuel economy.
- Low- Acuity Patient Transfer Bus In January of 2014 BCAS introduced a low acuity patient transfer bus based out of Burns Lake. This bus operates as a scheduled transfer vehicle between Burns Lake and Prince George on the Highway 16 corridor. The aim of the service is to consolidate trips currently being done by multiple ambulances. By providing transportation for up to five patients at one time, this initiative significantly reduces the cumulative number of kilometers traveled, thereby reducing fuel consumption and emissions.
- **Replacement of Single Stretcher Units with Dual Stretcher Units** Two single stretcher ambulances were replaced with dual stretchers. These dual stretcher cars improve the ability to transport two patients at a time reducing the number of trips.
- Emissions from paper use BCEHS eliminated the use of non-recycled paper, and now only uses 100% recycled paper.

Emissions and Offsets Summary Table:

GHG Emissions created in Calendar Year 2014 (from SMARTTool Homepage):	
Total Emissions (TCO2E)	14,470
Total Offsets (TCO2E)	14,064
Adjustments to GHG Emissions Report	ed in Prior Vears (from SMARTTool Homenage):
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Total Emissions (TCO2E)	
Total Emissions (TCO2E) Total Offsets (TCO2E)	3

OI June 2015 Date Executive Director, PP, BCEAS Title nah Dhaliwal Signature Summy Name (please print)

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

Organization Name

BC Emergency Health Services

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.

Yes

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

• Energy usage in BCEHS buildings is reviewed to identify any spikes in usage. These spikes are investigated to ensure there isn't energy loss from equipment issues or other factors. We also look at buildings whose usage has decreased to identify energy saving successes that could be used in other buildings.

• Energy reports are available for review whenever an issue is identified for quick reference for decision making.

• Projects are identified that could offer energy reductions outcomes. E.g. we completed a number of T8 upgrades in 2014 and have more T8 lighting upgrades planned for 2015. Lighting is the main area we focus on for energy saving upgrades.

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 efficent vehicles (gas/diesel)

Yes

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:

Idle reduction system: In 2014 BCAS received an additional 51 ambulance equipped with ECOSmart idle reduction technology, bringing the total to 169 Ambulances equipped with this technology. The ECOSmart systems monitor battery condition and patient compartment shutting down an idling ambulance when the engine is not required. It is anticipated a reduction in fuel consumption by 250 litres per ambulance per year in busy urban deployments.

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

Used less paper than previous year

Yes

Used only 100% recycled paper

Yes

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:

Recycling (paper/cardboard) programs at a variety of stations where the services are available. In some specific buildings expanded recycling programs are being looked at.

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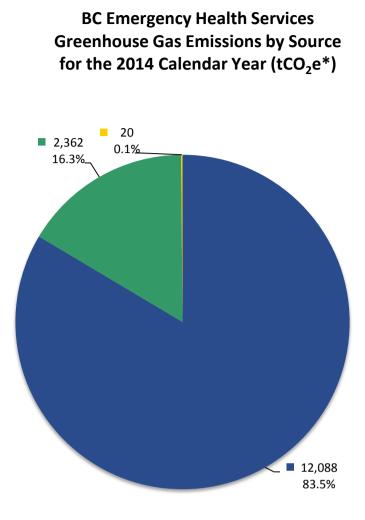
Actions Taken to Reduce Emissions - continued

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

- More T8 lighting upgrades planned for 2015.
- Additional ECOSmart ambulances will be introduced in 2015.

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

No



Total Emissions: 14,470

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

Offsets Applied to Become Carbon Neutral in 2014 (Generated June 22, 2015 4:00 PM)

Total offsets required: 14,064. Total offset investment: \$351,600. Emissions which do not require offsets: 406 **

*Tonnes 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.

Supplies (Paper)