

2015 Carbon Neutral Action Report - BC Emergency Health Services

This Carbon Neutral Action Report for the period January 1st, 2015 to December 31st, 2015 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2015 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2016 and beyond.

By June 30, 2016 BC Emergency Health Services' final Carbon Neutral Action Report will be posted to our website at www.bcas.ca.

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:

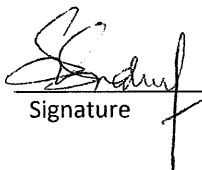
Fleet Operations, BCAS, has a mandate to provide safe, reliable and an efficient ground fleet to support our paramedics. With more than 596 vehicles, ran more than 24 million km in 2015, we leave a significant carbon footprint. Small measures at gaining efficiencies in the operation of the ambulance fleet will contribute towards carbon neutrality for the organization.

Actions taken by BCAS to reduce energy use and/or GHG emissions in 2015:

- **Idle Reduction System** - In 2015 BCAS received an additional 60 ambulance equipped with ECOSmart idle reduction technology, bringing the total to 233 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.
- **Emissions from paper use** – BCEHS eliminated the use of non-recycled paper, and now only uses 100% recycled paper.

Emissions and Offsets Summary Table:

BCEHS GHG Emissions and Offsets for 2015 (TCO2E)	
GHG Emissions created in Calendar Year 2015 (from SMARTTool Homepage):	
Total Emissions (TCO2E)	14,671
Total Offsets (TCO2E)	14,210
Adjustments to GHG Emissions Reported in Prior Years (from SMARTTool Homepage):	
Total Emissions (TCO2E)	13
Total Offsets (TCO2E)	13
Total Emissions for Offset for the 2014 Reporting Year (from SMARTTool Homepage)	
Total Offsets (TCO2E)	14,223

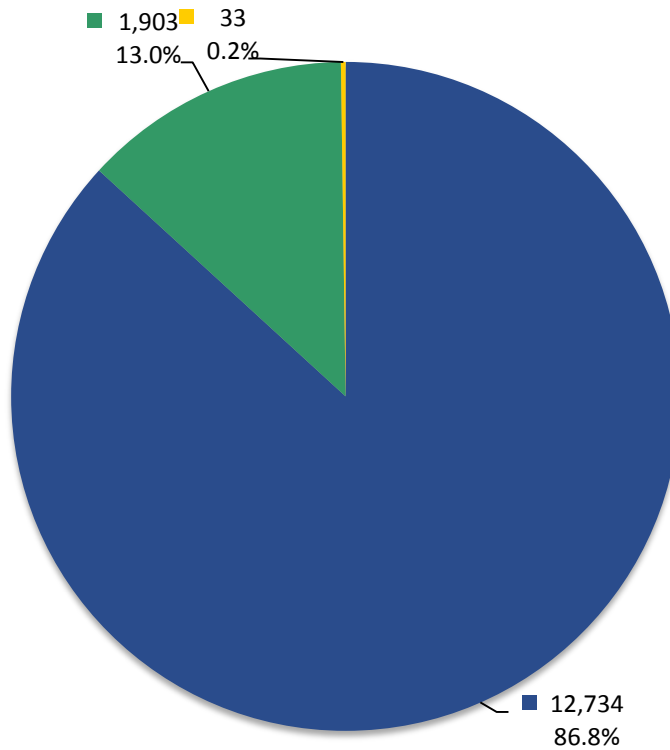

Signature

May 26, 2016

Sunny Dhaliwal

Provincial Executive Director, Provincial Programs

BC Emergency Health Services Greenhouse Gas Emissions by Source for the 2015 Calendar Year (tCO₂e*)



Total Emissions: 14,671

- 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 2015 (Generated May 26, 2016 8:55 AM)

Total offsets required: **14,210**. Total offset investment: **\$355,250**. Emissions which do not require offsets: **461** **

*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.

2015 Carbon Neutral Action Report Survey

Organization Name:

BC Emergency Health Services

Please select your sector:

- Health Authority or Affiliate

1) Stationary Sources (Buildings, Power Generators, Ext. Lighting) Fuel Combustion, Electricity use, Fugitive Emissions:

Please indicate which actions your PSO took in 2015:

Have developed an overall strategy/plan to reduce energy use in your organization's buildings inventory:

Yes

If Yes, please describe:

Programmable thermostats, motion sensor light switching, thermostatically controlled outdoor power outlets for vehicles in cold climate areas. Motion sensor and light sensor outdoor light fixtures.

Undertook evaluations of building energy use:

Yes

Performed energy retrofits on existing buildings:

Yes

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

Yes

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from buildings:

(No response)

2) Mobile Sources (Fleet, Off-road/Portable Equipment) Fuel Combustion:

Indicate which actions your PSO took in 2015:

Have put in place an operations policy/program to support systematic reductions in fleet related emissions:

(e.g., program to convert fleet to renewable fuels)

Yes

If Yes, please describe:

Idle Reduction -

60 new ambulance units received in FY15/16 are equipped with ECO-Smart idle reduction technology. Units equipped with this technology now account for approximately 37% of active ambulances in the BCAS fleet. The ECO-Smart system monitors battery condition and patient compartment, shutting down an idling ambulance when the engine is not required. The anticipated reduction in fuel consumption is 250 litres per ambulance per year in busy urban areas.

Aerodynamic Design –

These 60 new units feature a redesigned air dam and narrower body to reduce frontal area, resulting in reduced overall air drag on the ambulance and a reduced conversion weight to improve fuel economy.

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

Yes

Replaced existing vehicles with hybrid or electric vehicles:

No

Took steps to drive less than previous years:

Yes

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from fleet combustion:

BCEHS Fleet is currently evaluating chassis option for the next Ambulance procurement RFP, to be posted end of 2016, with the focus on more fuel efficient platform. Potential new chassis options such as the Ford Transit are anticipated to provide improvements in fuel economy.

The BCEHS Transforming Emergency Health Services Action Plan calls for several key initiatives designed to reduce future demand. This includes changes to how we respond to low acuity calls including option not to send an ambulance thereby reducing to kilometers travelled by the fleet and the associated emissions.

3) Supplies (Paper):

Indicate which actions your PSO took in 2015:

Have put in place an operations policy/program to facilitate a systematic reduction in paper-related emissions:

(e.g., policy to purchase 100% Recycled Content; default to double-sided printing)

Yes

If yes, please describe:

All paper purchased is made of recycled content, and IMITS has programmed the default settings on all printers to be double-sided printing.

Have put in place an operations policy/program to facilitate behavioural changes from paper use:

(e.g. awareness campaign to reduce paper use):

Yes

If yes, please describe:

Corporate Administration, with the assistance of IMITS, has transitioned the main fax machines at our Corporate Head Office and our Vancouver Administration Office to enable all faxes to be directed to a generic email box instead of printing all incoming faxes. The faxes are then sent to the recipient via email, so no printing takes place unnecessarily.

Used only 100% recycled paper:

Yes

Used some recycled paper:

Yes

Used alternate source paper:

(e.g., bamboo, hemp, wheat etc.)

No

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from paper supplies:

(No response)

4) Other Sustainability Actions:

Please note that this section is optional

Business Travel

Created a low-carbon travel policy or travel reduction goal:

(low-carbon = lowest emission of greenhouse gas per kilometer per passenger)

Yes

Encouraged alternative travel for business:

(e.g. bicycles, public transit, walking)

Yes

Encouraged or allow telework/working from home:

Yes

Other:

(No response)

Education Awareness

Have a Green/Sustainability/Climate Action Team:

No

Supported green professional development:

(e.g. workshops, conferences, training)

No

Supported or provided education to staff about the science of climate change, conservation of water, energy and/or raw materials:

No

Other:

(No response)

Adaptation Planning for Climate Risks

Have assessed whether increased frequency of extreme weather events and/or long term changes in climate will affect your organization's infrastructure, its employees and/or its clients:

No

Have incorporated these anticipated changes in climate into your organization's planning and decision making:

No

Other:

(No response)

Other Sustainability Actions

Established a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models:

Yes

Have put in place an operations policy/program to facilitate the reduction and diversion of building occupant waste stream from landfills or incineration facilities:

(e.g., composting, collection of plastics, batteries)

Yes

Established green standards for goods that are replaced infrequently and/or may require capital funds to purchase:

(e.g., office furniture, carpeting, etc.)

(No response)

Incorporated lifecycle costing into new construction or renovations:

(No response)

Please list any other sustainability actions your organization has taken not listed above:

(No response)