

BC Pavilion Corporation  
Carbon Neutral Action Report  
2013





# Executive Summary

## Declaration Statement:

This is the 2013 Carbon Neutral Action Report for BC Pavilion Corporation (PavCo). This report contains our 2013 emissions profile, offsets purchased, the action we have taken in 2013 to reduce our GHG emissions and our plans to continue reducing emissions in 2014 and beyond.

By June 30<sup>th</sup> PavCo's final CNAR will be posted to our website <http://www.bcpavco.com/>

PavCo is a Provincial Crown Corporation with a mandate to increase economic benefit to British Columbia through the management of two world-class public facilities located in downtown Vancouver: BC Place and the Vancouver Convention Centre. During the calendar year 2013, PavCo reported to two provincial ministries: the Ministry of Energy, Mines and Natural Gas and the Ministry of Transportation and Infrastructure.

## PavCo's Mandate

To generate economic and community benefit for the people of British Columbia through prudent management of public facilities.

## PavCo's Vision

To be the global leader in outstanding venues and events.

## PavCo's Values

- Quality and Service:
- Respect, Fairness and Honest Communication:
- Financial Responsibility:
- Creativity and Innovation:
- Enthusiasm:
- Environmental Responsibility, Integrity.

BC Place is one of the most technologically advanced stadiums in the world. It boasts a cutting-edge spectrum of customizable features, such as high definition video displays, interior temperature control, incredible acoustics, retractable seating, and a FIFA 2-Star rated playing surface. In 2012, BC Place was recognized as a finalist in the BC Hydro PowerSmart Excellence Awards in the 'New Construction' Category.

The Vancouver Convention Centre consists of two uniquely designed buildings, the iconic East building and connected West building, the world's first LEED® Platinum certified convention facility. The Convention Centre is designed with the latest environmentally sustainable features and technology, including a six-acre "living roof", a marine habitat and an on-site blackwater treatment plant.


Together, BC Place and the Vancouver Convention Centre generate in excess of \$300 million in economic benefit for the province annually. These important venues attract thousands of people every year to our province, economically supporting our hotel and tourism industries, as well as restaurants and other retail.



Chief Financial Officer

# 2013 Greenhouse Gas Emissions

<i>PavCo</i> GHG Emissions and Offsets for 2013 (TCO2E)	
<b>GHG Emissions created in calendar year 2013:</b>	
Total Emissions	4613.55
Total Emissions for Offsets	4613
<b>Adjustments to GHG Emissions Reported in Previous Years</b>	
Total Emissions	-15
Total Emissions for Offsets	-15
<b>Credit owing from PCT at end of 2012 reporting year:</b>	
Credit Owing	1
<b>Total Emissions for Offsets for the 2013 Reporting Year:</b>	4597


JUNE 12 / 14

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Signature Date  
 KIM CAMPBELL DIRECTOR, FINANCE

Name (Please print) Title

A recalculation was required due to the relocation of the Corporate Services team to the East building of the Vancouver Convention Centre (Corporate Services had previously estimated a utility rate for two years but did not incur consumption due to the relocation).

**Offsets Applied to Become Carbon Neutral in 2013**

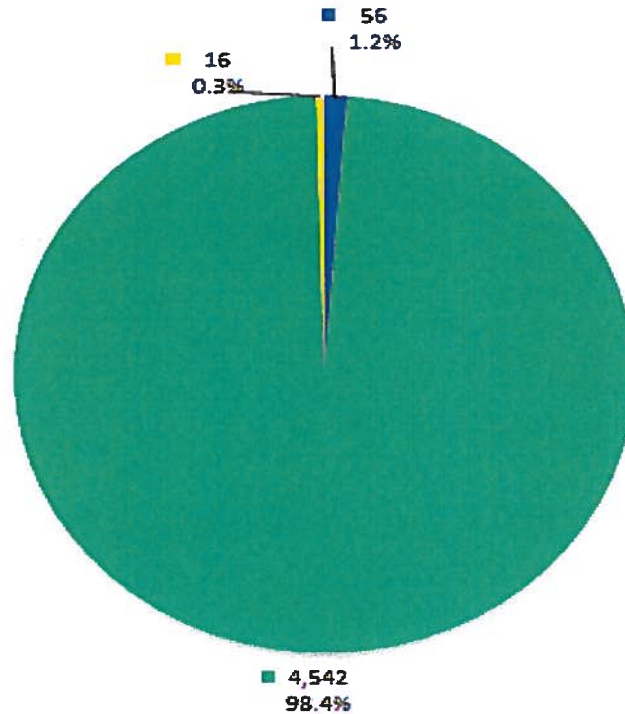
PavCo will purchase 4597 tonnes of carbon offset, worth approximately \$114,925 to become carbon neutral for 2013.

**Actions Taken to Reduce Greenhouse Gas Emissions in 2013**

BC Place reduced their consumption mainly from smart operations. An initiative to further reduce HVAC usage when not required was implemented so that a significant saving was realized. The Vancouver Convention Centre continued its best practices for holding sustainable events while continuing with their utility monitoring of all building systems. Reducing

energy usage at the start and finish of event activities as well as preventative and scheduled maintenance programs, the staff helped keep demand down.

**BC Pavilion Corporation  
Greenhouse Gas Emissions by Source  
for the 2013 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 4,614**

- 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 2013 (Generated May 14, 2014 12:23 PM)**

Total offsets required: 4,613. Total offset investment: \$115,325. Emissions which do not require offsets: 1 \*\*

\*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.

**Plans to Continue Reducing Greenhouse Gas Emissions 2013 – 2015**

Both BC Place and the Vancouver Convention Centre continue to look for efficiencies and enhancements for optimization. The target for the facility continues to be an annual 3% decrease in energy use, in line with BC Provincial Government reduction target of 33% by 2020.

# 2013 Carbon Neutral Action Report (CNAR) - Part 2 ACTIONS

Created Thursday, February 27, 2014

Updated Friday, May 30, 2014

<https://fluidsurveys.com/surveys/cas-z/2013-cnar-form-bps-actions/09cddfba413d7de46323e3dd355beae9/>

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## Page 1

Please complete the following sections of the 2013 Carbon Neutral Action Report form. Save your work frequently to prevent it from being lost. You can also save a copy for your own use as either a WORD or PDF file using the buttons at the bottom of each page.

This is Part 2 of the Carbon Neutral Action Report form. This section reports on actions taken to reduce emissions during the 2013 calendar year. This information will be included in your final Carbon Neutral Action Report posted on the Ministry of Environment website.

When the form is complete press the submit button on the last page to automatically submit the information to the Climate Action Secretariat (CAS). Do not press submit before you are ready – this may result in a loss of work.

In addition to completing this survey (Part 1 2), you are required to submit your completed Overview (Executive Summary) and Self-Certification Checklist. The 2013 Overview template was included in the email sent and can also be found on the LiveSmart leaders Community.

Please ensure you meet the following reporting deadlines:

A DRAFT 2013 CNAR is due to CAS by March 31, 2014. The draft is comprised of the Overview ONLY (no executive sign-off required).

The FINAL 2013 CNAR is due to CAS by May 30, 2014. The final 2013 CNAR includes Part 1 Part 2 survey form and Overview.

The Self-Certification Checklist is due to CAS by May 15, 2014.

For more information about the Carbon Neutral Government process, please refer to *Becoming Carbon Neutral 2013*, or should you have any questions please contact [climateactionsecretariat@gov.bc.ca](mailto:climateactionsecretariat@gov.bc.ca).

Organization Name

*PavCo*

**Actions Taken to Reduce Emissions**

1) Stationary Fuel Combustion, Electricity (Buildings):

Indicate which actions were taken in 2013:

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:

*Yes at BC Place whereby HVAC fans were reviewed and shut down wherever possible.*

*Both VCC and BC Place staff consistently monitored for efficiencies.*

2) Mobile Fleet Combustion (Fleet and other vehicles):

Indicate which actions were taken in 2013:

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:

*Staff consistently carpoled when they needed to travel to meetings or appointments.*

3) Supplies (Paper):

Indicate which actions were taken in 2013:

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.)

Yes

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

*All printers default to double-sided where available.*

Actions Taken to Reduce Emissions - continued

Explain how you plan to continue minimizing emissions in 2014 and future years:

*Ongoing operational plans to review usage and reduce when possible.*

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

*Yes*



Actions to Promote Sustainability and Conservation - Optional

The following are actions that fall outside the scope of the *Carbon Neutral Government Regulation*, but which many organizations still undertake and may wish to report on. This section is optional for reporting.

Business Travel

Created a low-carbon travel policy or travel reduction goal (Low-carbon: Lowest emission of greenhouse gases per kilometre per passenger)

*(No response)*

Virtual Meeting Technology

Installed web-conferencing software (e.g., Live Meeting, Elluminate, etc.)

*Yes*

Made desktop web-cameras available to staff

*(No response)*

Encourage alternative travel to meetings (e.g., bicycles, public transit, walking)

*Yes*

Encourage carpooling to meetings

*Yes*

Education and Awareness

Have created Green, Sustainability, Energy Conservation, or Climate Action Teams.

*(No response)*

Provided resources and/or dedicated staff to support these teams

*(No response)*

Provided behaviour change education/training for these teams (e.g., community-based social marketing)

*(No response)*

Established a sustainability/green awards or recognition program

*(No response)*

Support green professional development (e.g., workshops, conferences, training)

*(No response)*

Planning for Climate Change

Have assessed whether extreme weather events and/or long term changes in climate will affect our organization's business areas

*(No response)*

Long term changes in climate have been incorporated into our organization's decision making.

*(No response)*

Actions to Promote Sustainability and Conservation - Optional (continued)

Staff Awareness and Education

Provided education to staff about the science of climate change

*(No response)*

Provided education to staff about the conservation of water, energy, and raw materials

*(No response)*

Provided green tips on staff website or in newsletters

*(No response)*

Alternate Work/Commuting Options

Allow for telework/working from home

*(No response)*

Staff have the option of a compressed work week

*(No response)*

Commuting by foot, bicycle, carpool or public transit is encouraged

*(No response)*

Shower or locker facilities are provided for staff/students who commute by foot or by bicycle

*Yes*

Secure bicycle storage is provided

*Yes*

Other Sustainability Actions

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

*Yes*

Put in place a potable water management strategy to reduce potable water demand of building-level uses such as cooling tower equipment, toilet fixtures, etc. and landscape features

*Yes*

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

*(No response)*

Have implemented a hazardous waste reduction and disposal strategy (Hazardous Waste: E.g., electronics including computer parts and monitors, batteries, paints, fluorescent bulbs)

*Yes*

Have incorporated minimum recycled content standards into procurement policy for consumable, non-paper supplies (e.g., writing instruments, binders, toner cartridges, etc.)

*(No response)*

Established green standards for goods that are replaced infrequently and/or may require capital funds to purchase (e.g., office furniture, carpeting, etc.)

*Yes*

Incorporated lifecycle costing into new construction or renovations

*(No response)*

Please list and other sustainability actions you wish to report not included in the previous list.

*(No response)*