



**CARBON NEUTRAL ACTION REPORT
2015**

BC PAVILION CORPORATION

EXECUTIVE SUMMARY

DECLARATION STATEMENT:

This is the 2015 Carbon Neutral Action Report for BC Pavilion Corporation (PavCo) for the period January 1, 2015 to December 31, 2015. This report summarizes PavCo's emissions profile, the total offsets to reach net-zero emissions, the actions it has taken in 2015 to reduce greenhouse gas emissions, and its plans to continue reducing emissions in 2016 and beyond.

PavCo's final *Carbon Neutral Action Report* will be posted online at www.bcpavco.com by June 30, 2016.

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 Stadium and the Vancouver Convention Centre. During the calendar year 2015, PavCo reported to 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 FACILITIES

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.

The Vancouver Convention Centre consists of two uniquely designed buildings, the iconic East building and stunning 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 the province, economically supporting the hotel and tourism industries, as well as restaurants and other retail.

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

OVERVIEW

In 2015, the Vancouver Convention Centre implemented changes to waste management practices which resulted in an increased diversion rate to 64% from 50% in 2014. In addition, changes to HVAC scheduling and temperature set-points have resulted in lower energy usage throughout both buildings. The facility continues to engage clients to design more sustainable meetings and events, including the provision of post-event sustainability reports for clients to understand the impact of their event on the environment, with particular attention paid to energy usage and waste diversion rates.

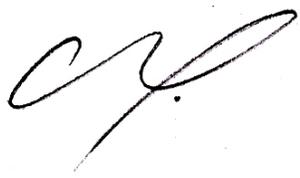
BC Place has been reducing energy use by not using steam and having systems in parts of the building shut down when not in use. Ongoing efforts to reduce consumption with simple measures such as replacing equipment with Energy Star related alternatives. The stadium has an entire building energy study underway that will provide a baseline of where future potential energy savings will be. Other initiatives include the installation of low flow faucets, as well as major lighting and mechanical upgrades.

BC Pavilion Corporation GHG Emissions and Offsets for 2015 (TCO₂e)	
GHG Emissions created in Calendar Year 2015	
Total Emissions (tCO ₂ e)	3345
Total Offsets (tCO ₂ e)	3344
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (tCO ₂ e)	n/a
Total Offsets (tCO ₂ e)	n/a
Grand Total Offsets for the 2015 Reporting Year	
Grand Total Offsets (tCO ₂ e)	3344

RETIREMENT OF OFFSETS:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, PavCo (the Organization) is responsible for arranging for the retirement of the offsets obligation reported above for the 2015 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Environment ensuring that these offsets are retired on the Organization's behalf, the Organization will pay the associated invoice to be issued by the Ministry in an amount equal to \$25 per tonne of offsets retired on its behalf plus GST.

EXECUTIVE SIGN-OFF:



May 30, 2016

Signature

Date

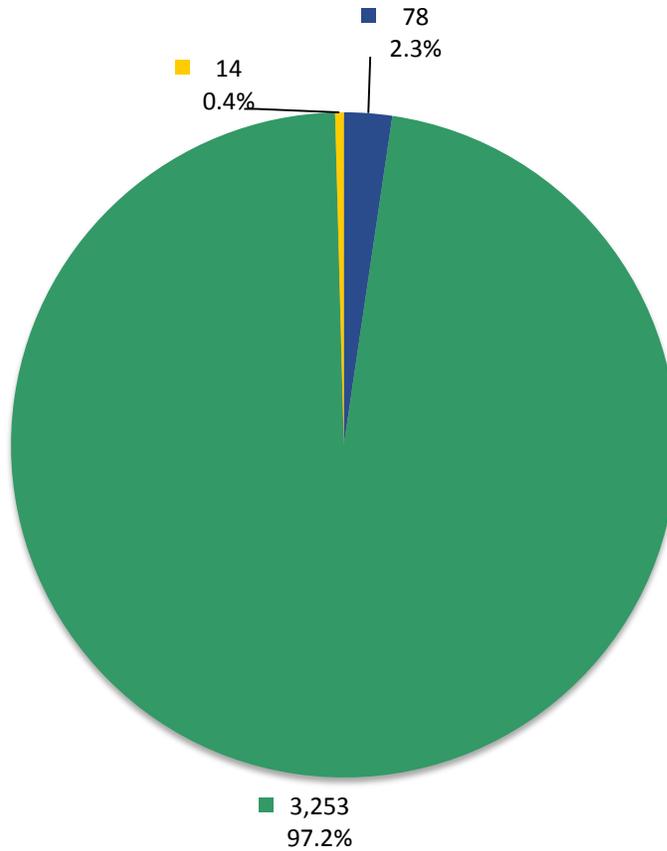
Ken Cretney

CEO

Name (please print)

Title

**BC Pavilion Corporation
Greenhouse Gas Emissions by Source
for the 2015 Calendar Year (tCO₂e*)**



Total Emissions: 3,345

- 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 8:54 AM)

Total offsets required: **3,344**. Total offset investment: **\$83,600**. Emissions which do not require offsets: **1** **

*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:

PavCo

Please select your sector:

- Crown Corporation

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:

Currently focusing on lighting to reduce our overall electricity consumption. Also, the facility will be going through a re-commissioning study to further calibrate our equipment and reduce energy.

Undertook evaluations of building energy use:

No

Performed energy retrofits on existing buildings:

Yes

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

No

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)

No

If Yes, please describe:

(No response)

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

No

Replaced existing vehicles with hybrid or electric vehicles:

No

Took steps to drive less than previous years:

No

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

(No response)

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:

Policy to purchase 100% recycled paper or alternative sustainable sourced paper such as wheat. Policy to have all computer printers to default to 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:

New sustainability coordinator working on awareness and education programs.

Used only 100% recycled paper:

No

Used some recycled paper:

Yes

Used alternate source paper:

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

Yes

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)

(No response)

Encouraged alternative travel for business:

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

(No response)

Encouraged or allow telework/working from home:

(No response)

Other:

(No response)

Education Awareness

Have a Green/Sustainability/Climate Action Team:

Yes

Supported green professional development:

(e.g. workshops, conferences, training)

Yes

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

Yes

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.)

Yes

Incorporated lifecycle costing into new construction or renovations:

Yes

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

(No response)