

The cover features a central dark blue trapezoidal shape containing the title. This shape is surrounded by white geometric borders that frame two photographs of the BC Pavilion. The left photograph shows a close-up of the building's curved, illuminated glass facade. The right photograph shows a wider view of the building's modern architecture, including a glass-enclosed staircase and a large glass wall, with the white, tent-like roof structure visible in the background.

CARBON NEUTRAL
ACTION REPORT
2016



BC PAVILION CORPORATION

EXECUTIVE SUMMARY

DECLARATION STATEMENT:

This Carbon Neutral Action Report for the period January 1st, 2016 to December 31st, 2016 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2016 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2017 and beyond.

By June 30, 2017 PavCo's final *Carbon Neutral Action Report* will be posted to our website at www.bcpavco.com.

B.C. Pavilion Corporation (PavCo) is a Provincial Crown Corporation with a mandate to generate economic and community benefit for the people of British Columbia through prudent management of its public facilities. PavCo owns and operates two world-class facilities located in downtown Vancouver: BC Place and the Vancouver Convention Centre. During the calendar year 2016, 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 generated \$556 million in economic benefit for the province in 2015/16. These important venues attract thousands of people every year to the province, economically supporting the tourism and hospitality industries, as well as trade development.

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

BC Place and Vancouver Convention Centre have completed energy audits of their facilities. With this information, the facilities have begun to plan out mechanical and electrical efficiency projects to continue to reduce energy. These include HVAC and lighting upgrades along with mechanical alterations. This information is now being developed into a three-year capital improvement program.

The Convention Centre continues to upgrade its lighting systems to LED fittings and install variable speed drives on motors driving pumps and fans. Planned capacity and efficiency upgrades to its Blackwater Treatment Plant will result in the facility further reducing its reliance on municipal water supplies. Planned expansion of its energy sub metering system will identify further areas to target for energy reduction initiatives, and allow post-event sustainability reports to be generated and shared with clients with the end goal to reduce Greenhouse Gas (GHG) emissions for future events.

BC Pavilion Corporation GHG Emissions and Offsets for 2016 (tCO₂e)	
GHG Emissions created in Calendar Year 2016	
Total Emissions (tCO ₂ e)	3929
Total Offsets (tCO ₂ e)	3928
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (tCO ₂ e)	11
Total Offsets (tCO ₂ e)	11
Grand Total Offsets for the 2016 Reporting Year	
Grand Total Offsets (tCO ₂ e)	3939

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 2016 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 within 30 days, 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.

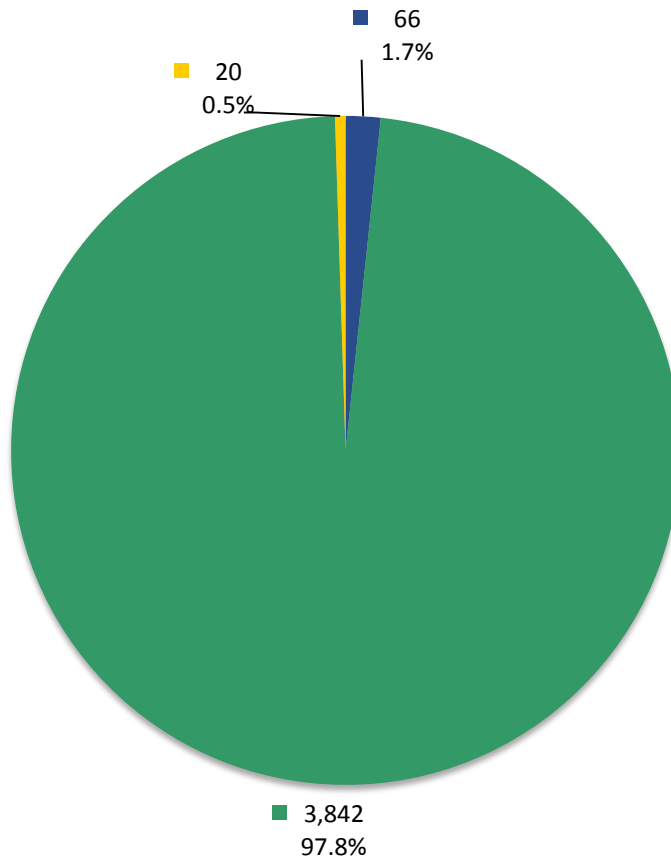
EXECUTIVE SIGN-OFF:



May 30, 2017

Signature	Date
Rehana Din	Chief Financial Officer
Name (please print)	Title

**BC Pavilion Corporation
Greenhouse Gas Emissions by Source
for the 2016 Calendar Year (tCO₂e*)**



Total Emissions: 3,929

- 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 2016 (Generated May 16, 2017 9:53 AM)

Total offsets required: **3,928**. Total offset investment: **\$98,200**. 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.

2016 Carbon Neutral Action Report Survey

Part One (external)

Contact Name(s):

Mandy Gale

Organization Name:

BC Pavilion Corporation

Please select your sector:

- Crown Corporation

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

During 2016, did your organization take any of the following actions to support emissions reductions from buildings?

Select all that apply

- Conducted an energy audit/study of building(s) in the organization's portfolio
- Performed energy retrofits of the organization's buildings.: Installation of Variable Speed Drives on HVAC system pumps

Briefly describe your organization's plans to continue reducing emissions from its stationary sources in future years.

Upgrade to LED lighting is underway in both facilities. Installation of variable speed drives to reduce electricity consumption on pump and fan motors.

During 2016, did your organization participate in utility-sponsored energy demand management program(s) (e.g. BC Hydro's Energy Management (Manager))?

No

If yes, please describe briefly:

(No response)

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

During 2016, did your organization take any of the following actions to support emission reductions from its mobile sources?

Select all that apply

(No response)

Briefly describe your organization's plans to continue reducing emissions from its mobile sources in future years.

(No response)

3) Supplies (Paper):

During 2016, did your organization take any of the following actions to support emissions reductions from paper supplies?

Select all that apply

-
- Awareness campaign focused on reducing office paper use.
 - Policy requiring the purchase of recycled content paper.: 100% recycled content

Briefly describe your organization's plans to continue reducing emissions associated with its office paper use in future years.

Continued focus on switching to electronic work order system rather than paper printouts

4) Other Sustainability Actions:

Business Travel:

During 2016, did your organization take any of the following actions to support emissions reductions from business travel?

Select all that apply

(No response)

Education Awareness:

During 2016, did your organization have any of the following programs or initiatives to support sustainability education and awareness?

Select all that apply

- Green, Sustainability or Climate Action Team
- Support for professional development on sustainability (e.g. workshops, conferences, training)
- Supported or provided education to staff about the science of climate change, conservation of water, energy and/or raw materials

Other Sustainability Actions:

During 2016, did your organization have any of the following programs or initiatives to support sustainability?

Select all that apply

- A water conservation strategy which may include a plan or policy for replacing water fixtures with efficient models
- An operations policy or program to facilitate the reduction and diversion of building occupant waste (e.g., composting, collection of plastics, batteries) from landfills or incineration facilities
- Green procurement standards for goods (e.g., office furniture, etc.)