



# 2016 CARBON NEUTRAL ACTION REPORT – SMALL EMITTERS FORM

**DUE: May 31, 2017**

This form is for the use of BC Public Sector Organizations whose GHG emissions were less than 600 tonnes CO<sub>2</sub>e during the previous reporting year (2015). Please fill in the required information below:

**Organization Name:**

Columbia Power Corporation

**Contact name:**

Krista Watts.

<b>GHG Emissions and Offsets for 2016 (tCO<sub>2</sub>e)</b>	
<b>GHG Emissions created in Calendar Year 2016 (from SMARTTool Homepage):</b>	
Total Emissions (tCO <sub>2</sub> e)	38
Total Offsets (tCO <sub>2</sub> e)	37
<b>Adjustments to GHG Emissions Reported in Prior Years (from SMARTTool Homepage):</b>	
Total Emissions (tCO <sub>2</sub> e)	10
Total Offsets (tCO <sub>2</sub> e)	9
<b>Grand Total Offsets for the 2016 Reporting Year (from SMARTTool Homepage):</b> (This is the total emissions that must be offset for Reporting Year 2016)	
Grand Total Offsets (tCO <sub>2</sub> e)	46

To enable comparisons with all B.C. public sector organizations, please provide the following data for your organization:

1. How many Full Time Equivalent (FTE) employees were part of your organization as of Dec 31, 2016? 31
2. What was the total amount of floorspace (m<sup>2</sup>) in your organization (including occupied and unoccupied space, owned or leased) as of Dec 31, 2016: 901 (m<sup>2</sup>)
3. What was the primary use of that space (office, education, warehousing, health services, lodging, arts and recreation, other)? Office
4. How many motor vehicles did your organization own or lease as of Dec 31, 2016? 5



**Briefly describe the top three actions taken by your organization in 2016 to reduce GHG emissions and/or improve sustainability from its operations:**

Action
<p>1. Composting in the staff kitchen could reduce the amount of waste generated by approximately one third. Composting organic material also greatly reduces the amount of methane produced by allowing organic materials to break down under aerobic conditions (producing carbon dioxide) rather than breaking down anaerobically (producing methane). Compost also reduces the amount of chemical fertilizers that are required for gardening.</p>
<p>2. Columbia Power has secured a plot in the Castlegar Community Garden. The community garden plot is within walking distance of the office which will allow staff members to walk to the garden plot over their lunch break. The produce from the garden will be given to staff members throughout the growing season and at the end of the season the intent will be to have a lunch with only items produced locally in home gardens. The garden will also expose staff members to local gardening techniques and hopefully act as a forum for producing healthy food locally.</p>
<p>3. Columbia Power is undergoing facility lighting upgrades to energy efficient LED lights. The Brilliant Expansion Facility and Brilliant Dam lighting upgrades began in 2016. Projects to upgrade further facility lighting are being proposed and supported.</p>

**Briefly describe plans your organization has for continuing to reduce your GHG emissions in future years:**

<p>Recycling programs at the hydroelectric facilities are being assessed in 2016 to ensure that all potential recyclable waste streams are being directed away from disposal at the landfill. This will include managing the labelling, location and amount of recycling containers for the acceptable materials collected by the applicable contractors.</p>
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Describe any actions your organization took during 2016 to strengthen its ability to manage the likely effects of climate change in the coming years and decades (e.g., 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.)

A new debris boom has been installed at the head of the Arrow Lakes Hydro intake channel, a critical piece of operational infrastructures at Arrow Lakes Hydro facility serves two key purposes in providing debris control for the power plant intake and preventing public boat access into the channel. The replacement project has been in the works since November 2014 when a significant wind event released a large number of log rafts in the Arrow reservoir causing substantial damage to the debris boom connecting cables and submerged anchor lines. The new debris boom is designed and built with significant upgrades including increased design life, improved public safety measures (bright yellow for better in water visibility), added submerged screen length for better debris retention, provisions for quick boat access in and out of the channel and increased point load withstand capacity to avoid catastrophic failure in the event of another large scale log release on the reservoir.

**Retirement of Offsets:**

In accordance with the requirements of the *Greenhouse Gas Reduction Targets Act* and Carbon Neutral Government Regulation, Columbia Power Corporation (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 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**

Name: Susan Dyer  
(print)

Title: VP Operations

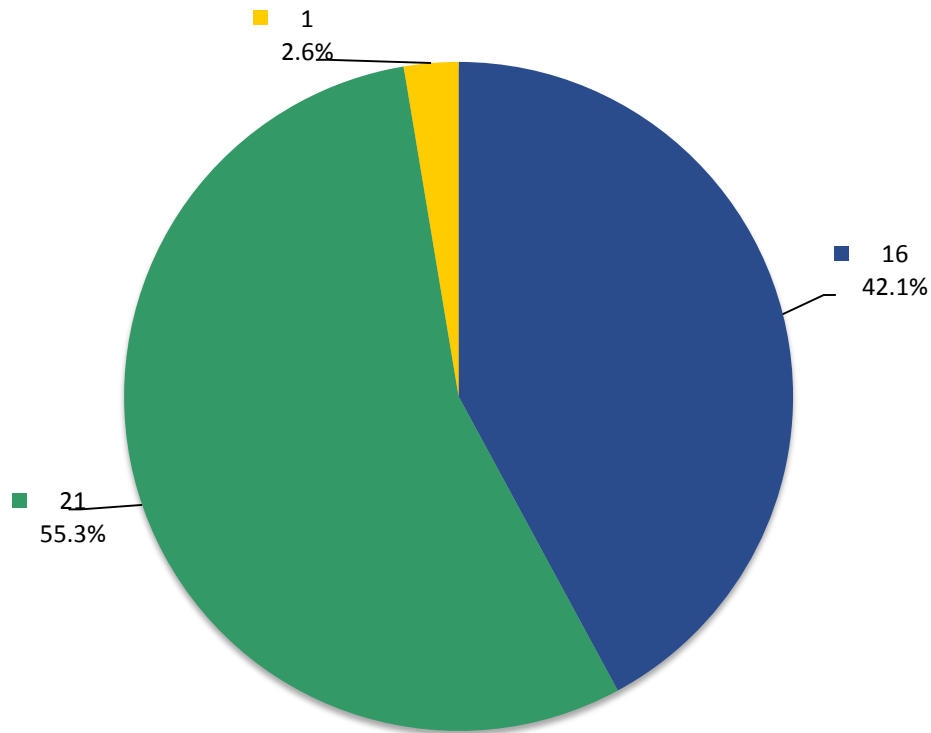
Signature: [Handwritten Signature]

Date: May 30, 2017



Please scan and email the completed form to [climateactionsecretariat@gov.bc.ca](mailto:climateactionsecretariat@gov.bc.ca)

**Columbia Power Corporation  
Greenhouse Gas Emissions by Source  
for the 2016 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 38**

- 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 9:50 AM)**

Total offsets required: **37**. Total offset investment: **\$925**. Emissions which do not require offsets: **0** \*\*

\*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.