



# 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:**

BC Innovation Council

**Contact name:**

Michelle Foster

GHG Emissions and Offsets for 2016 (tCO <sub>2</sub> e)	
<b>GHG Emissions created in Calendar Year 2016</b> (from SMARTTool Homepage):	
Total Emissions (tCO <sub>2</sub> e)	2
Total Offsets (tCO <sub>2</sub> e)	0
<b>Adjustments to GHG Emissions Reported in Prior Years</b> (from SMARTTool Homepage):	
Total Emissions (tCO <sub>2</sub> e)	0
Total Offsets (tCO <sub>2</sub> e)	0
<b>Grand Total Offsets for the 2016 Reporting Year</b> (from SMARTTool Homepage): (This is the total emissions that must be offset for Reporting Year 2016)	
Grand Total Offsets (tCO <sub>2</sub> e)	2

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? 27
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: 7400
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? 0



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

<b>Action</b>
<p><b>1. Foresight Venture Acceleration Program Update</b></p> <p>Our Foresight Cleantech Accelerator, a member of our BC Acceleration network, continues to be one of the leading accelerators in the province, supporting the development and advancement of cleantech companies in the province, that are generating efficiencies through clean/green innovations while mitigating the impacts of various industries. In 2016 they reported the following:</p> <ul style="list-style-type: none"><li>• 30 Companies Active in the Program</li><li>• 39 New Jobs Created</li><li>• \$5M New Company Revenue Generated</li><li>• \$7.9M New Investment Attracted - Investment includes venture capital, angel, strategic, friends &amp; family and founder investments (Note: this category did not include founder's investment last year)</li><li>• \$4.1M New Government Funding Attracted</li></ul> <p>Success stories include:</p> <ul style="list-style-type: none"><li>Hydra Energy won an \$80K grant from the BCIC Ignite program with UBC as a partner - CEO Simon Pickup was recognized with a 30 under 30 award by Business in Vancouver</li><li>Loom was a top finalist at the prestigious <a href="#">LAMP competition</a>.</li></ul>
<p><b>2. Cleantech Initiatives – Examples of events involving cleantech, which were sponsored or offered by BCIC in 2016/17</b></p> <p><b>2a. Greater Vancouver Cleantech Expo and Championship - BCIC ran the B2Bs at this event</b></p> <p>On September 28, the City of Surrey and Vancity in partnership with sponsors, including the BC Innovation Council as gold sponsor, hosted the 2016 Greater Vancouver Cleantech Expo and Championship. The Expo is the premier event for local clean technology companies to demonstrate their technology to buyers and investors, and to pitch to a panel of judges for the opportunity to win cash prizes. As part of the event, the BC Innovation Council hosted “Business to Business Meetings (B2B)” to connect the needs of buyers with the solutions of BC innovators.</p>

### **2b BCTECH Summit – March 2017 (BCIC Co-hosted)**

A two-day event that showcases BC's vibrant technology industry, build cross-sector opportunities for businesses. For participants to discover how technology can boost competitive advantage in every sector of our economy. The Tech Summit included cleantech in various ways as follows:

#### Marketplace

28 companies participated in the Clean Tech Pavilion

20 companies participated in the AgTech Display.

#### Investment Showcase

10 companies pitched their clean tech solutions in the Investment Showcase including Saltworks, NovaBioRubber Green Technologies, Dicarbon Energy, Ecoation, VeloMetro Mobility, KPD Consulting, CRM GeoTomography Solutions, Ronin8 Technologies, PCS Technologies, Miro ChemBiotech

#### Conference Program

Three program streams specifically focused on Clean Resources, Innovations in Clean Natural Gas and Clean Technologies provided 10 hours of programming and featured 42 presenters

Social enterprise organizations presented their work on creating socially sustainable projects and diversity and inclusion in three sessions.

#### Technology Showcase

The Technology showcase featured power walls from Tesla, test drives with 6 EV vehicle manufacturers plus another dozen display vehicles and initiatives from several post-secondary research institutions including SmartGrid and energy solutions.

**3a. Agritech Innovation Challenge** - Specific to the agritech sector, had a number of clean tech elements within the challenges: nutrient management, pest management, greenhouse efficiency.

On November 14, BC Ministry of Agriculture and BC Innovation Council hosted the Agritech Innovation Challenge event, bringing together farmers, industry, innovators, investors, and government. At the event, participants learned about the agrifood sector challenges, in the thematic areas of: mechanization, pest management, greenhouse efficiency, nutrient recovery and management. Post-event innovators will submit proposals for their solutions, to be considered for mentorship, funding, and other project opportunities.

### **3b. BCIC IGNITE**

BCIC Ignite is designed to provide funding for collaborative, industry-driven academic research leading to commercializable projects in the natural resources, applied sciences, and engineering in BC. In 2016, BCIC Ignite awarded over \$1.7 million dollars seven of the most innovative projects, five of which were clean technologies that will provide significant environmental benefits to BC and beyond.

Projects funded in the inaugural year of the program include the development of an adaptable



electrochemical cell platform with applications ranging from minerals processing to wastewater and Green House Gas treatments, novel electro-catalyst materials for ammonia removal in wastewater processing, a breakthrough water-based technology to extract copper from mineral ores, the development of a unique dual-fuel engine technology for class 8 heavy duty trucks fueled by waste hydrogen, and new structural innovations for mid-rise buildings using mass timber components that have the potential to significantly reduce carbon footprints in the construction industry.

With the support of BCIC Ignite, these clean technology projects will commercialize and move their innovations to market within a three-year timeframe. We will continue to promote, support and fund initiatives through BCIC Ignite that will help increase sustainability and manage the likely effects of climate change in the coming years and decades.

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

BCIC will continue to promote, support and sponsor initiatives that help to increase sustainability awareness and reduce GHG emissions both internally and externally throughout our community.

**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.)**

With the initiatives listed as examples above, BCIC will continue to promote and support cleantech companies in BC by growing and futhering their work so that they can mitigate environmental impacts from industry.

**Retirement of Offsets:**



In accordance with the requirements of the *Greenhouse Gas Reduction Targets Act* and Carbon Neutral Government Regulation, BCIC (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.

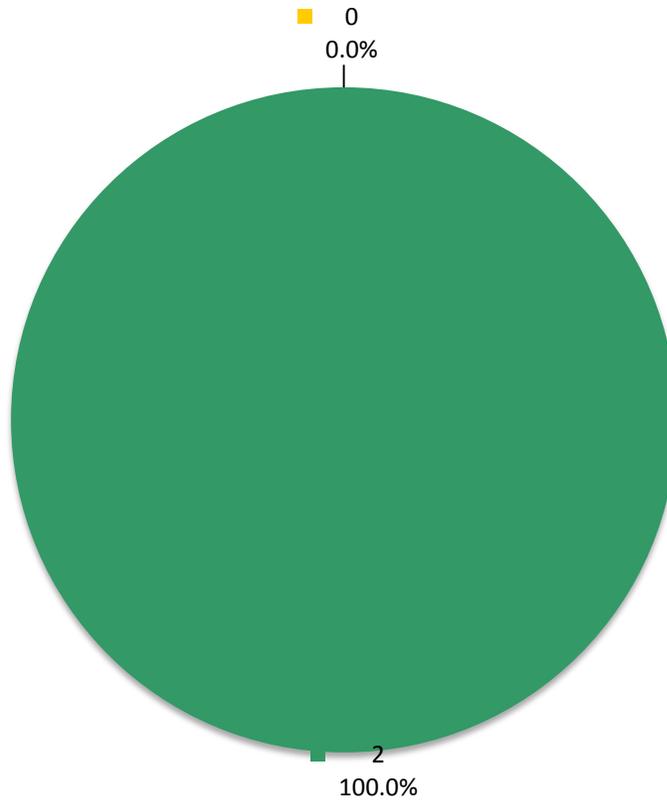
**Executive Sign-off**

Name: CARL M ANDERSON Title: Pres & CEO  
(print)

Signature:  Date: May 31 2017

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

**BC Innovation Council  
Greenhouse Gas Emissions by Source  
for the 2016 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 2**

■ Stationary Fuel Combustion (Building Heating and Generators) and Electricity ■ Supplies (Paper)

**Offsets Applied to Become Carbon Neutral in 2016 (Generated May 16, 2017 9:57 AM)**

Total offsets required: **2**. Total offset investment: **\$50**. 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.