



## 2017 CARBON NEUTRAL ACTION REPORT – SMALL EMITTERS FORM

**DUE: May 31, 2018**

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 (2017). Please fill in the required information below

**Organization Name:**

Innovate BC (Formally BC Innovation Council)

**Contact name:**

Michelle Foster

GHG Emissions and Offsets for 2017 (tCO <sub>2</sub> e)	
<b>GHG Emissions created in Calendar Year 2017</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 2017 Reporting Year</b> (from SMARTTool Homepage): (This is the total emissions that must be offset for Reporting Year 2017)	
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, 2017? 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, 2017: 7400 (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, 2017? 0

**Briefly describe the top three actions taken by your organization in 2017 to reduce GHG emissions and/or improve sustainability from its operations:**

Action
<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 2017 they reported the following:</p> <ul style="list-style-type: none"> <li>• 60 active companies in the program</li> <li>• 48 new jobs created</li> <li>• \$9.5M new investment attracted</li> <li>• \$4.4M new government funding attracted</li> </ul> <p><b>Success stories include:</b></p> <ul style="list-style-type: none"> <li>• Recycle Now signed a 5-year contract for the City of Surrey's organics recycling for 1,000 tonnes per month.</li> <li>• Boydell recently received a purchase order from a new customer in Australia.</li> <li>• Crylogistics recently was a top 10 finalist in the NVBC competition and won the International Scaleup award.</li> <li>• Novarc recently secured Seaspan as a strategic investor and completed its first robotics sale.</li> </ul>
<p><b>2. Cleantech Initiatives – Examples of events involving cleantech, which were sponsored or offered by Innovate BC in 2017/2018</b></p> <p><b>2a. <u>National Industrial Symbiosis Program (NISP) – Canada Pilot</u></b></p> <p>- Launched in 2017 with the BC Innovation Council as an initial funding sponsor along-side the following other pilot funding organizations or government partners: Western Economic Diversification, BC Ministry of Energy and Mines, BC Ministry of Agriculture, BC Ministry of Culture &amp; Community, Metro Vancouver, City of Surrey, City of New West, City of Edmonton. This 18-month pilot that will end in March 2019 will involve six British Columbia workshops and six Alberta workshops. The NISP Canada Pilot will offer an award-winning and global methodology to identify and catalyze the implementation of industrial symbiosis, where business to business connections are facilitated to match a need with a have, and to turn waste into potential product resources as part of the circular-economy. The goal is to yield economic returns or cost savings, retention or creation of jobs, innovation out-comes, and the mitigation of environmental impacts (water, waste, ghg emissions). Final results from the pilot will be submitted to the funders in March 2019.</p>

## **2b. BCTECH Summit**

A two-day business event that showcases BC's vibrant technology industry and builds cross-sector opportunities for businesses.

### **Clean Tech at the #BCTECH Summit**

Technology is transforming our natural resources industries, generating business opportunities for cleantech companies and powering a sustainability revolution. The #BCTECH Summit showcased cleantech and provided numerous opportunities for tech entrepreneurs, industry and investors to grow, buy, partner with or invest in clean technology businesses, which include:

#### Investment Showcase

4 companies pitched their clean tech solutions in the Investment Showcase including Acuva Technologies, AVA Technologies, Ecotagious and Hydrogen in Motion. Approximately 40% of investors at the Investment Showcase expressed interest in clean tech innovations.

#### B2B Meetings

6 cleantech solution providers and 2 agritech solution providers met with potential buyers and innovation scouts through the B2B Matchmaking Program during the Summit. B.C.-based participants included Aeroroot Systems, Austin Engineering, Catalyst Agri-Innovations Society, HRG Infrastructure Monitoring, Hydrogen in Motion, Lumenari Technologies, Pani Energy and Sensible Building Science.

#### Sponsors & Exhibitors

Participating cleantech and agritech companies include Teck Resources Limited, FortisBC, Foresight, Electronics Recycling Association, Bullfrog Power, Emotive: The Electric Vehicle Experience, Hydra Energy Corp and Novarc Technologies and Advanced Intelligent Systems Inc.

#### Conference Program

Two program streams and the Mining Our Future Lunch Session, hosted by Greater Vancouver Board of Trade specifically focused on clean resources, cleantech and agritech innovations provided eight hours of programming and featured more than 30 presenters from companies such as BC Bioenergy Network, General Fusion, Fortis BC, Marine Renewables Canada, MineSense Technologies Ltd. and Mining Association of BC.

#### Sustainability Initiatives

The #BCTECH Summit was a zero-waste event. Sustainability initiatives include battery and hard drive recycling, wind power offsets, paper-free agenda and e-vehicle test drives. The event was hosted at Vancouver Convention Centre, the world's first double LEED® Platinum certified convention centre.

### **3a. Agritech Innovation Challenge**

This initiative was specific to the agritech sector, but included a number of cleantech elements within the challenges:

- Nutrient management - Revenue streams and addressing environmental concerns through nutrient management.
- Pest management - Minimizing losses and impacts through pest management solutions.
- Greenhouse efficiency - Promoting sustainable practices and finding efficiencies in greenhouses.
- Improving berry competitiveness - Enhancing berry productivity and profitability through mechanization.
- Promoting overall food supply/security for the Province of British Columbia.

This challenge dialogue process (a partnership between Innovate BC and the BC Ministry of Agriculture) was offered for the agriculture sector, to communicate their challenges to BC innovators with agritech solutions (students, researchers, entrepreneurs, startups, established organizations). To support the next generation of tech development to enhance the competitiveness and resiliency of BC's agriculture sector. This challenge was launched in 2016, but ran through until the end of 2017. Six finalists received funding to complete projects within the agritech industry to address the above challenges: gUAVas (\$20,000); Ecoation Innovative Solutions (\$20,000); Gordon Shank Consulting (\$20,000); Boost Environmental Systems (\$20,000); Nutriva Group (\$50,000); Stem Shock (\$80,000).

### **3b. Innovate BC (formally BCIC) Ignite Program**

The Innovate BC Ignite Program 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. The Ignite program launched in 2016. In the 2017 year along, Innovate BC Ignite awarded eight awards to the most innovative project submissions, five of which were clean technologies that will contribute environment benefits to BC and beyond. With the support of Innovate BC Ignite, these clean technology projects will commercialize and move their innovations to market within a three-year time-frame. We will continue to promote, support and fund initiatives through Innovate BC Ignite, that will help increase sustainability and manage the likely effects of climate change in the coming years and decades. These cleantech projects are:

- Innovative Organic solids destruction and resource recovery process for waste streams

UBC Partner: Dr. Kwang Victor Lo

Industry Partners: Opus International Consultants, James Wastewater Treatment Plant

Award: \$300,000

- Expedited species-at-risk data acquisition through new commercial lab capacity to drive better resource and land management decisions

UVIC Partner: Dr. Caren Helbing

Industry Partners: Hemmera Envirochem, Maaxam Analytics

Award: \$185,000

- MagPi Plus - Magnesium phosphorus innovation to harvest nutrients from animal manures

Langara College Partner: Mr. Kelly Sveinson

Industry Partners: Muddy River Technologies, Seabreeze Farms, Catalyst Agri-Innovations Society, KPD Consulting

Award: \$90,000

- Sustainable high-performance plastics and carbon fibre from wood

Selkirk College Partner: Mr. Jason Taylor

Industry Partners: ABC3D Technologies, National Research Council, MIDAS, Granite Mountain Ventures, i4C Innovation Centre

Award: \$300,000

- Development of UV-LED photoreactors for point-of-use (POU) water treatment

UBC Partner: Dr. Fariboz Taghipour

Industry Partners: Acuva Technologies, EDS Pumps & Water Treatment Ltd, Eureka Forbes

Award: \$300,000

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

Innovate BC 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 2017 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, Innovate BC will continue to promote and support cleantech companies in BC by growing and furthering 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, *Innovate BC* (the Organization) is responsible for arranging for the retirement of the offsets obligation reported above for the 2017 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy 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: Shirley Vickers Title: CEO  
(print) \_\_\_\_\_

Signature:  Date: May 31<sup>st</sup>, 2018  
\_\_\_\_\_

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