

## Justice Institute of British Columbia - 2016 Carbon Neutral Action Report

### EXECUTIVE SUMMARY

Justice Institute of British Columbia (JIBC) is Canada's leading public safety educator - a dynamic post-secondary institution recognized nationally and internationally for innovative education in the areas of justice and public safety. JIBC offers a range of applied and academic programs (certificates, diplomas, and degrees) that span the spectrum of safety – from prevention to response and recovery.

JIBC is committed to reducing its carbon footprint and improve sustainability through environmentally responsible practices. In 2008 we began implementing operational changes which has resulted in significant reductions in energy and water consumption at our New Westminster and Maple Ridge campuses. Our efforts have resulted in a 64.1% reduction in natural gas and 64.5% reduction in electricity consumption from 2008 – 2017.

### DECLARATION STATEMENT

This Carbon Neutral Action Report for the period January 1<sup>st</sup>, 2016 to December 31<sup>st</sup>, 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.

### GREENHOUSE GAS EMISSIONS AND OFFSETS TO BECOME CARBON NEUTRAL IN 2016

- JIBC Fleet Vehicles = 89.72 TCo<sub>2</sub>
- Stationary Combustion = 440.31 TCo<sub>2</sub>
- Purchased Energy = 23.58 TCo<sub>2</sub>
- Office Paper = 51.20 TCo<sub>2</sub>
- Total Emissions in 2016 = 605 TCo<sub>2</sub>

### PLANS TO CONTINUE REDUCING GREENHOUSE GAS EMISSIONS IN 2017

Here are some projects we are looking at for 2017, to further decrease our emission and energy usage.

#### New Westminster Campus

- Replacement of 2 hot water heating boilers
- Installation of 2 electric car charging stations
- Retrofitting our T8 fluorescent tubes to new LED's tubes campus wide

### **Maple Ridge Campus**

- Installation of a power factor meter
- Continued efforts to change existing campus lighting to LED's

### **Closing Remarks**

At the New Westminster and Maple Ridge campuses, we continued to closely monitor energy consumption to identify trends in energy use and to ensure that our buildings are being operated optimally for the season. Additionally, monitoring energy use allows us to gauge the effectiveness of implemented energy-efficiency strategies.

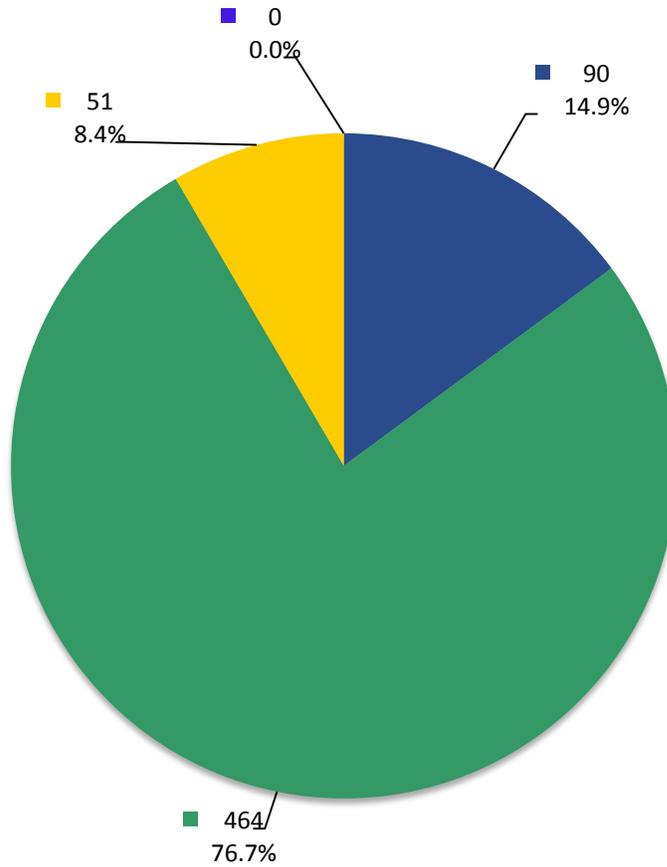


Kayoko Takeuchi  
Vice President, Finance & Operations



Richard Epp  
Director, Facilities

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



**Total Emissions: 605**

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)
- Fugitive Sources

**Offsets Applied to Become Carbon Neutral in 2016 (Generated May 15, 2017 4:27 PM)**

Total offsets required: **602**. Total offset investment: **\$15,050**. Emissions which do not require offsets: **3** \*\*

\*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.

# 2016 Carbon Neutral Action Report Survey

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Part One (external)

Contact Name(s):

*Dale Bradley*

Organization Name:

*Justice Institute of British Columbia*

Please select your sector:

- Post-Secondary Institution

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

- Other actions? Please describe briefly.: Replaced building lighting

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

*We are replacing out Heating Boilers this 2017 year*

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

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- Other actions? Please describe briefly.: Asking staff to reduce the photocopying within the institue
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Briefly describe your organization's plans to continue reducing emissions associated with its office paper use in future years.

*(No response)*

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

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- Encouraged alternative travel for business (e.g. bicycles, public transit, walking)
- Encouraged or allowed teleworking or working from home

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

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- Green, Sustainability or Climate Action Team

Other Sustainability Actions:

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

Select all that apply

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- Lifecycle costing of new construction or renovations
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