



## 2020 Climate Change Accountability Report

May 28, 2021

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## Declaration Statement

This Climate Change Accountability Report for the period January 1 to December 31, 2020, summarizes the Justice Institute of British Columbia's (JIBC) emissions profile, total offsets to reach net-zero emissions, actions undertaken in 2020 to reduce greenhouse gas (GHG) emissions and plans to continue reducing emissions in 2021 and beyond.

By June 30, 2021, the 2020 Climate Change Accountability Report will be posted to JIBC's website at [www.jibc.ca](http://www.jibc.ca)

## Overview

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 has six campuses in British Columbia, located in New Westminster, Maple Ridge, Pitt Meadows, Chilliwack, Victoria, and the Okanagan.

JIBC is committed to reducing its carbon footprint and improve sustainability through environmentally responsible practices. Since 2008 JIBC has implemented operational changes resulting in significant reductions in energy consumption. Energy consumption is monitored at all campuses to identify usage trends and ensure buildings operate at optimal conditions for the season. Tracking energy usage allows JIBC to gauge the effectiveness of implemented energy-efficiency strategies designed to achieve carbon neutrality by reducing greenhouse gas emissions.

JIBC participates in BC Hydro's Energy Manager Associate Program. The program assists JIBC with developing its strategic energy management plan to support the Institute's commitment to energy efficiency and conservation by providing a framework for reducing energy consumption and its associated environmental impact.

Due to the COVID-19 pandemic, JIBC campuses were closed in 2020 from mid-March to the beginning of June. The closure resulted in reduced energy usage, waste, and recycling. Paper usage and fleet travel remained low throughout the year due to most staff working off-campus utilizing online solutions.

## **Greenhouse Gas Emission Reduction Activities Undertaken in 2020**

In 2020 JIBC undertook the following projects to reduce greenhouse gas emissions:

- Retrofitted fixtures and lamps to LED types at the New Westminster campus;
- Conducted lighting study to inform future retrofitting of fixtures and lamps to LED at the Maple Ridge campus;
- Replaced vending machines with new energy-efficient types at the New Westminster campus;
- Updated direct digital control trend log software at the New Westminster, Maple Ridge, Chilliwack, and Pitt Meadows campuses;
- Replaced the remaining drinking water fountain with a water bottle filling station at the New Westminster campus;
- Replaced air handling units at the end of their useful life with more efficient types at the Maple Ridge campus; and
- Implemented holiday closure schedules over the Winter break at all campuses.

## **Plans to Further Reduce Greenhouse Gas Emissions in 2021 and Beyond**

Potential projects to further reduce greenhouse gas emissions in 2021 and beyond include:

- Retrofit remaining lighting to LED, including fixture replacement and addition of motion sensors at the Maple Ridge campus;
- Replace the glass roof in the atrium at the New Westminster campus;
- Replace original circulation pumps in the water treatment plant system with high-efficiency types of equipment with variable speed drives at the Maple Ridge campus;
- Add destratification fans to the atrium in the main building and gym areas of the New Westminster campus;
- Add variable speed drives to chilled water pumps at the New Westminster campus;
- Replace server room(s) heat pumps with more efficient units at the New Westminster campus;
- Replace existing air handling units serving administration and classrooms and fitness trailer with more efficient units at the Maple Ridge campus;

- Install photovoltaic (PV) solar panels for electrical savings at the New Westminster campus;
- Replace older fleet vehicles with more fuel-efficient and/or electric vehicles;
- Install charging stations for fleet electric vehicle charging;
- Implement additional virtual servers to replace physical servers;
- Upgrade network switches to energy-efficient types;
- Refresh desktops to remove older, less energy-efficient computers;
- Engage with travel booking agency to receive GHG emission reporting for flight bookings;
- Review administrative processes using Lean methodology to reduce unnecessary paper-based filing and forms;
- Implement personal printing account program to raise individual staff awareness of printing and copying habits;
- Participate in the STARS program – Sustainability Tracking and Assessment Rating System administered by the Association for the Advancement of Sustainability in Higher Education;
- Participate in BC Hydro's Energy Manager Program to support the strategic approach to energy management and organizational change to reduce energy waste, costs, and improve energy efficiency; and
- Participate in BC Hydro's Energy Wise Network Program to conduct behavioural change programs.

## Emissions and Offset Summary Table

In accordance with the Carbon Neutral Government Regulation, JIBC activities generating direct and indirect greenhouse gas emissions were recorded throughout the calendar year. In 2020, JIBC realized direct and indirect greenhouse gas emissions measured in tonnes per carbon dioxide equivalent (tCO<sub>2</sub>e) in the categories of mobile fuel combustion, stationary fuel combustion, purchased energy and office paper.

<b>JIBC 2020 GHG Emissions and Offsets</b>	
<b>GHG Emissions created in Calendar Year 2020</b>	
Total Emissions (tCO <sub>2</sub> e)	546
Total BioCO <sub>2</sub>	2
Total Offsets (tCO <sub>2</sub> e)	544
<b>Adjustments to Offset Required GHG Emissions Reported in Prior Years</b>	
Total Offsets Adjustment (tCO <sub>2</sub> e)	3
<b>Grand Total Offsets for the 2020 Reporting Year</b>	
Grand Total Offsets (tCO <sub>2</sub> e) to be Retired for 2020 Reporting Year	547
Offset Investment (\$25 per tCO <sub>2</sub> e)	\$13,675

## Retirement of Offsets

In accordance with the requirements of the Climate Change Accountability Act and Carbon Neutral Government Regulation, JIBC is responsible for arranging for the retirement of the offset obligation reported above for the 2020 calendar year, together with any adjustments reported for past calendar years. JIBC hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy (the Ministry) ensuring that these offsets are retired on JIBC's behalf, JIBC 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 31, 2021

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Signature

Date

Mike Proud

Vice President, Finance and Operations

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Name (please print)

Title