



# SUSTAINABILITY

## GOAL 2: MAKE UBC A LIVING LABORATORY IN ENVIRONMENTAL AND SOCIAL SUSTAINABILITY BY INTEGRATING RESEARCH, LEARNING, OPERATIONS, AND INDUSTRIAL AND COMMUNITY PARTNERS

### Greenhouse Gas Emissions

In 2010, UBC’s Vancouver campus committed to aggressive greenhouse gas (GHG) emission reduction targets to reduce emissions 33 per cent by 2015, 67 per cent by 2020, and 100 per cent by 2050, compared to 2007 levels. Three major projects, outlined in the [Climate Action Plan](#), will achieve UBC Vancouver’s 2015 GHG reduction targets: the Bioenergy Research and Demonstration Facility, Academic District Energy System steam to hot water conversion, and Continuous Optimization. The UBC Okanagan campus’ commitment to achieving carbon neutral operations continues to center on its geo-exchange district energy system and energy retrofits to legacy campus buildings, combined with building occupant engagement through the “Power of You” program.

Under the [Greenhouse Gas Reductions Target Act](#), UBC is also required to submit a [Carbon Neutral Action Report](#) to the province each year on emissions and actions taken to reduce emissions. As required by provincial legislation, UBC has purchased offsets for its GHG emissions each year since 2010 to become carbon neutral.

In 2013, UBC continued to deliver on our climate action commitments, reducing offsettable GHG emissions by 11 per cent against a 2007 baseline, despite a 16 per cent increase in floor space and 22 per cent increase in student enrollment; relative to student enrolment, we have reduced GHG emissions per full-time equivalent (FTE) student by 27 per cent. For more information, please read the [full report](#).

#### **2013 UBC Absolute and Relative Offsettable GHG Emissions, Compared to 2007 Baseline**

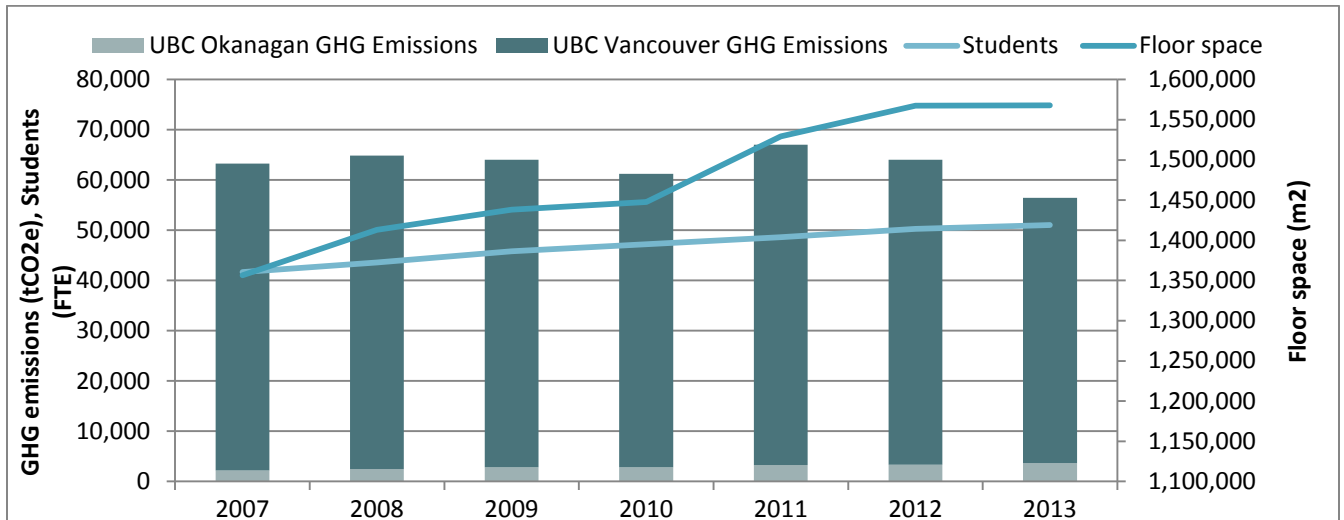
|   | Okanagan <sup>1</sup> |       |                                 | Vancouver <sup>2</sup> |        |                    | UBC <sup>1</sup> |        |                    |
|---|-----------------------|-------|---------------------------------|------------------------|--------|--------------------|------------------|--------|--------------------|
|   | 2007                  | 2013  | % Change from 2007 <sup>3</sup> | 2007                   | 2013   | % Change from 2007 | 2007             | 2013   | % Change from 2007 |
| <b>GHG Emissions (tCO<sub>2</sub>e)</b>                   | 2,186                 | 3,629 | +66%                            | 61,082                 | 52,832 | -14%               | 63,268           | 56,461 | -11%               |
| <b>GHG Emissions per student (tCO<sub>2</sub>e / FTE)</b> | 0.53                  | 0.49  | -8%                             | 1.62                   | 1.21   | -26%               | 1.52             | 1.11   | -27%               |

<sup>1</sup> Prior to 2010, emissions data for UBC’s Okanagan campus is available for buildings only. Thus, while 2007 data represented in the above table includes buildings emissions only, 2013 data includes emissions from all in-scope sources.

<sup>2</sup> UBC’s Vancouver campus reports emissions for core and ancillary buildings, fleet, paper, and 1/11<sup>th</sup> of TRIUMF.

<sup>3</sup> UBC’s Okanagan campus has undergone significant growth since 2007; floor space has increased by 90 per cent and student enrolment has increased by 81 per cent.

**UBC Offsettable Emissions and Growth, 2007 to 2013**



**For more information about UBC’s sustainability plans, initiatives and reports please visit:**

<http://sustain.ubc.ca/our-commitment/plans-policies-reports>

<http://www.ubc.ca/okanagan/sustainability/reports.html>