

## UBC Vancouver Campus - 2008 GHG Emissions Inventory

Scope	Component [a]	Usage Data	GHG Emissions (tonnes of CO <sub>2</sub> e/year)
Scope 1 – Direct	Core Buildings		
	Natural Gas for Steam	805,380 GJ	40,210
	Natural Gas direct use	57,290 GJ	2,860
	Heating Oil for steam	6,150 GJ	450
	Ancillary Buildings [b]		
	Natural Gas for Steam	155,390 GJ	7,760
	Natural Gas direct use	89,230 GJ	4,460
	Heating Oil for steam	1,180 GJ	85
	TRIUMF – Natural Gas direct use (1/11 share) [c]	3,230 GJ	160
	Fleet		
	Gasoline	530,490 L	1,260
	Biodiesel	104,380 L	230
Scope 2 – Indirect	Core Buildings – Electricity	130,502,360 kWh	2,870
	Ancillary Buildings [b] – Electricity	52,274,520 kWh	1,150
	TRIUMF – Electricity (1/11 share) [c]	5,586,070 kWh	120
Scope 3 – Optional	Paper		850
	Staff and Faculty Travel [d]		13,600
	Solid Waste [e]		1,800
	Commuting [e]		29,100
	Building Lifecycle [e]		10,200
<b>Total Emissions Eligible to be Offset under Bill 44 (Scope 1, 2, and Paper) [f]</b>			<b>62,470</b>



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Notes:

[a] Other components have been identified but methodologies are not yet in place. These include: fugitive emissions (Scope 1, refrigerants and research gases; required by GHGRTA to be inventoried for 2010), and Food and Procurement (Scope 3, these emissions will require research into the Life Cycle impacts of the procurement chain).

[b] Ancillary buildings include student housing, conference and athletics facilities.

[c] TRIUMF is 1/11 owned by UBC. This inventory includes 1/11 of the facility's estimated emissions.

[d] Figure taken from 2006 inventory. Staff and faculty travel was not measured in the 2008 inventory due to the large margin of error in the methodology.

[e] These emissions have been estimated from published conversion factors. Improvements to systems and methodologies may allow for other components to be included in future inventories. International student travel, food, and procurement systems have been identified as desired scope 3 emissions to include in future inventories.

[f] Values may not sum precisely due to rounding. This is a demonstrative value from the 2008 inventory. The actual requirement for offsets for each year will be determined based on the actual year's inventory starting in 2010.



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