

## UBC Vancouver Campus - 2007 GHG Emissions Inventory <sup>[a]</sup>

Scope	Component [b]	Usage Data	GHG Emissions (tonnes of CO <sub>2</sub> e/year)
Scope 1 – Direct	Core Buildings		
	Natural Gas for Steam	803,290 GJ	40,110
	Natural Gas direct use	70,400 GJ	3,520
	Heating Oil for steam	0 GJ	0
	Ancillary Buildings [c]		
	Natural Gas for Steam	146,430 GJ	7,310
	Natural Gas direct use	62,250 GJ	3,110
	Heating Oil for steam	0 GJ	0
	TRIUMF – Natural Gas direct use (1/11 share) [d]	2,110 GJ	110
	Fleet		
	Gasoline [e]	601,120 L	1,430
	Biodiesel [e]	243,140 L	540
Scope 2 – Indirect	Core Buildings – Electricity	129,835,350 kWh	2,860
	Ancillary Buildings [c] – Electricity	44,822,130 kWh	990
	TRIUMF – Electricity (1/11 share) [d]	5,292,390 kWh	120
Scope 3 – Optional	Paper		1,000
	Staff and Faculty Travel [f]		13,600
	Solid Waste [g]		1,930
	Commuting [g]		28,880
	Building Lifecycle [g]		10,190
<b>Total Emissions Eligible to be Offset under Bill 44 (Scope 1, 2, and Paper) [h]</b>			<b>61,090</b>



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Notes:

[a] 2007 is the baseline year for UBC Vancouver's Climate Action Plan.

[b] 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).

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

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

[e] Figure taken from 2006 inventory. Data unavailable in 2007.

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

[g] 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.

[h] Values may not sum precisely due to rounding. This is a demonstrative value from the 2007 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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