

UBC Vancouver Campus – 2011 GHG Emissions Inventory

Scope	Component [a]	Usage Data	GHG Emissions (tonnes of CO ₂ e/year)
Scope 1 – Direct	Core Buildings		
	Natural Gas for steam	777,450 GJ	39,000
	Natural Gas direct use	67,950 GJ	3,410
	Heating Oil for steam	720 GJ	50
	Ancillary Buildings [b]		
	Natural Gas for steam	191,800 GJ	9,620
	Natural Gas direct use	95,500 GJ	4,790
	Heating Oil for steam	140 GJ	10
	TRIUMF – Natural Gas direct use (1/11 share) [c]	1,830 GJ	90
	Fleet [d]		
	Gasoline	391,720 L	920
	Biodiesel and diesel	117,510 L	330
	Marine gasoline and diesel	5,940 L	10
	Propane	280 L	0.5
Scope 2 – Indirect	Core Buildings – Electricity	144,684,090 kWh	3,590
	Ancillary Buildings [b] – Electricity	50,952,620 kWh	1,270
	TRIUMF – Electricity (1/11 share) [c]	5,209,930 kWh	130
Scope 3 – Optional	Paper	96,680 pkg	580
	Commuting [d]		28,880
	Staff and faculty air travel		13,600
	Building lifecycle [g]		10,190
	Solid waste [d]		1,930
Total Campus Emissions Offset under GGRTA (Scope 1, 2, and Paper) [e]			63,803



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Notes:

[a] Fugitive emissions have been deemed out of scope as they were estimated to comprise less than 1% of campus emissions.

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

[c] UBC owns a 1/11 share of TRIUMF. This inventory includes 1/11 of the facility's estimated emissions.

[d] These emissions have been estimated from published conversion factors. Improvements to methodologies may allow for other Scope 3 components to be included in future inventories.

[h] Values may not sum precisely due to rounding. This table shows only the campus emissions that were offset in 2010. An additional 3,767 tonnes CO₂e associated with off-campus properties were also offset in 2011.



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