



UBC Vancouver Campus – 2013 Greenhouse Gas Emissions Inventory

Scope	Component [a]	Usage Data	GHG Emissions (tCO ₂ e)
Scope 1 – Direct	Core Buildings		
	Natural gas for steam	646,586 GJ	32,323
	Natural gas direct use	73,835 GJ	3,691
	Heating oil for steam	44 GJ	3
	Biomass facility	131,641 GJ	442
	Ancillary buildings [b]		
	Natural gas for steam	148,086 GJ	7,403
	Natural gas direct use	78,470 GJ	3,923
	Heating oil for steam	10 GJ	1
	Biomass facility	26,833 GJ	96
	TRIUMF – Natural gas direct use (1/11 share) [c]	1,206 GJ	60
	Fleet		
	Gasoline	384,528 L	906
	Biodiesel	109,910 L	307
Propane	1,749 L	3	
Scope 2 – Indirect	Core Buildings – Electricity	165,936,700 kWh	2,388
	Ancillary Buildings – Electricity	50,075,465 kWh	721
	TRIUMF – Electricity (1/11 share) [c]	5,769,979 kWh	83
Scope 3 – Optional	Paper	82,331 PKG	483
	Staff and faculty air travel		12,110
	Solid waste [d] [e]		1,448
	Commuting [d] [e]		30,757
	Building lifecycle [d]		11,811
Total Campus emissions offset under GGRTA (Scope 1, 2, and Paper) [f]			52,832

[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 1/11th share of TRIUMF. This inventory includes 1/11th of the facility's estimated usage and 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.

[e] Data for 2013 unavailable at time of publication. The value for 2012 is provided.

[f] Values may not sum precisely due to rounding. This table shows only the campus emissions that were offset in 2013. An additional 3,968 tCO₂e associated with off-campus properties were also offset in 2013.

To read the full 2013 Carbon Neutral Action Report, please visit: <http://sustain.ubc.ca/our-commitment/strategic-plans-policies-reports/annual-reports>