



UBC Vancouver Campus – 2012 Greenhouse Gas Emissions Inventory

Scope	Component [a]	Usage Data	GHG Emissions (tCO ₂ e)
Scope 1 – Direct	Core Buildings		
	Natural gas for steam	696,152 GJ	34,919
	Natural gas direct use	84,004 GJ	4,214
	Heating oil for steam	93 GJ	6
	Biomass facility	75,502 GJ	261
	Ancillary buildings [b]		
	Natural gas for steam	186,314 GJ	9,346
	Natural gas direct use	94,859 GJ	4,758
	Heating oil for steam	25 GJ	2
	Biomass facility	14,621 GJ	51
	TRIUMF – Natural gas direct use (1/11 share) [c]	1,154 GJ	58
	Fleet		
	Gasoline	390,829 L	921
	Biodiesel and diesel	114,134 L	317
	Marine gasoline and diesel	2,650 L	4
Propane	4,940 L	11	
Scope 2 – Indirect	Core Buildings – Electricity	156,491,863 kWh	3,887
	Ancillary Buildings – Electricity	50,344,856 kWh	1,251
	TRIUMF – Electricity (1/11 share) [c]	5,546,238 kWh	138
Scope 3 – Optional	Paper	98,906 PKG	572
	Commuting [d]		30,757
	Staff and faculty air travel		19,772
	Building lifecycle [d]		11,705
	Solid waste [d]		TBD
Total Campus emissions offset under GGRTA (Scope 1, 2, and Paper) [e]			60,715

[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] Values may not sum precisely due to rounding. This table shows only the campus emissions that were offset in 2012. An additional 4,084 tCO₂e associated with off-campus properties were also offset in 2012.