

THE UNIVERSITY OF BRITISH COLUMBIA

Office of Sustainability

Okanagan Campus

Scope	Component	Usage Data		GHG Emissions (tCO ₂ e)
	Core Buildings [a]			
Scope 1 - Direct	Natural Gas for district energy	20,369.90	GJ	1,023.00
	Natural gas for direct use	14,420.70	GJ	724.23
	Renewable natural gas (RNG) [b]	3,083.78	GJ	152.89
	Diesel	190.66	GJ	13.65
	Propane	-	GJ	-
	Leased Buildings [c]			
	Natural Gas for district energy	N/A	GJ	N/#
	Natural gas for direct use	1,866.49	GJ	93.74
	Renewable natural gas (RNG)	N/A	GJ	N/A
	Diesel	2.23	GJ	0.1
	Fleet			
	Gasoline	12,507.18	L	37.4
	Diesel	6,577.67	L	14.5
	Biodiesel	N/A		N//
	Natural Gas	N/A		N//
	Propane	111.97		0.2
	Fugitive Emissions			
	HFC R-407c	-	KG	_
	HFC R-410a	45.36	KG	87.2
	HFC R-507	-	KG	-
Scope 2 - Indirect	Core Buildings - Electricity for district energy	1,194,265.73	-	13.50
	Core Buildings - Electricity	31,347,034.93		354.22
	Leased Buildings - Electricity	547,132.32		6.18
Scope 3 - In Scope	Paper		Packages	12.54
	Emissions under Climate Change Accountability		0.0	
Scope 1, 2, and Pa	aper)			2,534
Total Campus Emis (Scope 1, 2, and Pa	ssions for Offset under Climate Change Accoun aper) [d]	tability Act		2,379
Scope 3 - Not required to be offset [e]	Business flights (staff and faculty) [f]			3,464
	Solid Waste [ø]			496
	Commuting [g]			9,255
	Buildings LLC [g]			1,429

UBC Okanagan Campus - 2023 Greenhouse Gas Emissions Inventory

[a] Core buildings are comprise of academic and administrative buildings.

[b] UBC is required to offset the non-biogenic (CH4 and N2O) portions of renewable natural gas.

[c] Leased buildings include facilities leased by and leased out from UBC Okanagan.

[d] Values may not sum precisely due to rounding. This table shows only the Okanagan campus emissions that were offset in 2023.

[e] Scope 3 emission not required for offset.

[f] These emissions have been calculated using historical trends and emissions factors provided through Provincial guidelines.

Improvements to methodologies and reporting processes will allow for more accurate Scope 3 reporting in future inventories. 2023 emissions factor increased to include Radiative Forcing Factors.

[g] 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.

To read the full 2023 Carbon Neutral Action Report (CNAR), please visit: