



UBC Okanagan Campus - 2022 Greenhouse Gas Emissions Inventory

Scope	Component	Usage Data		GHG Emissions (tCO ₂ e)
Scope 1 - Direct	Core Buildings [a]			
	Natural Gas for district energy	23,704.40	GJ	1,181.58
	Natural gas for direct use	22,593.26	GJ	1,126.19
	Renewable natural gas (RNG) [b]	3,087.14	GJ	153.88
	Diesel	162.76	GJ	11.70
	Propane	(43.03)	GJ	(2.63)
	Leased Buildings [c]			
	Natural Gas for district energy	N/A	GJ	N/A
	Natural gas for direct use	1,572.01	GJ	78.36
	Renewable natural gas (RNG)	N/A	GJ	N/A
	Diesel	2.17	GJ	0.16
	Fleet			
	Gasoline	17,939.38	L	36.21
	Diesel	6,119.70	L	16.69
	Biodiesel	N/A	L	N/A
	Natural Gas	N/A	L	N/A
	Propane	215.52	L	0.34
	Fugitive Emissions			
	HFC R-407c	3.63	KG	5.89
	HFC R-410a	42.18	KG	81.14
HFC R-507	-	KG	-	
Scope 2 - Indirect	Core Buildings - Electricity for district energy	1,182,222.92	kWh	13.59
	Core Buildings - Electricity	31,657,302.50	kWh	364.01
	Leased Buildings - Electricity	361,653.65	kWh	4.16
Scope 3 - In Scope	Paper	2,189.00	Packages	13.72
Absolute Campus Emissions under Climate Change Accountability Act (Scope 1, 2, and Paper)				3,085
Total Campus Emissions for Offset under Climate Change Accountability Act (Scope 1, 2, and Paper) [d]				2,930
Scope 3 - Not required to be offset [e]	Business flights (staff and faculty) [f]	**Covid-19 Impact		1,014
	Solid Waste [g]			409
	Commuting [g]	**Covid-19 Impact		5,790
	Buildings LLC [g]			1,383

[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 2022.

[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.

[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 2022 Carbon Neutral Action Report (CNAR), please visit:

<https://sustain.ok.ubc.ca/reports/#CCAR/>