

## **UBC Okanagan Campus - 2021 Greenhouse Gas Emissions Inventory**

Scope	Component	Usage D	ata	GHG Emissions (tCO <sub>2</sub> e)
	Core Buildings [a]			
	Natural Gas for district energy	20,076.00	GJ	1,001.25
Scope 1 - Direct	Natural gas for direct use	17,101.78	GJ	852.92
	Renewable natural gas (RNG) [b]	4,072.86	GJ	203.13
	Diesel	151.47	GJ	11.12
	Propane	40.54	GJ	2.48
	Leased Buildings [c]			
	Natural Gas for district energy	N/A	GJ	N/A
	Natural gas for direct use	1,256.68	GJ	62.67
	Renewable natural gas (RNG)	N/A	GJ	N/A
	Diesel	1.81	GJ	0.13
	Fleet			
	Gasoline	11,182.34	L	27.32
	Diesel	3,909.42	L	10.66
	Biodiesel	N/A	L	N/A
	Natural Gas	N/A	L	N/A
	Propane	152.56	L	0.23
	Fugitive Emissions			
	HFC R-407c	2.04	KG	3.62
	HFC R-410a	10.89	KG	22.73
	HFC R-507	-	KG	0
Scope 2 - Indirect	Core Buildings - Electricity for district energy	992,002.40	kWh	9.62
	Core Buildings - Electricity	29,068,676.51	kWh	281.96
	Leased Buildings - Electricity	301,206.85	kWh	2.92
Scope 3 - In Scope	Paper		Packages	6.19
Absolute Campus E (Scope 1, 2, and Pa	Emissions under Climate Change Accountabili per)	ty Act		2499
Total Campus Emis (Scope 1, 2, and Pa	ssions for Offset under Climate Change Accou per) [d]	ntability Act		2295
Scope 3 - Not required to be offset [e]	Business flights (staff and faculty) [f]	**(	Covid-19 impact	459
	Solid Waste [g]			417
	Commuting [g]	**Covid-19 impact		5,713
	Buildings LLC [g]			1,374

<sup>[</sup>a] Core buildings are comprise of academic and administrative buildings.

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

<sup>[</sup>c] Leased buildings include facilities leased by and leased out from UBC Okanagan.

<sup>[</sup>d] Values may not sum precisely due to rounding. This table shows only the Okanagan campus emissions that were offset in 2021.

<sup>[</sup>e] Scope 3 emission not required for offset.

<sup>[</sup>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.

<sup>[</sup>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.