



**UBC Okanagan Campus - 2020 Greenhouse Gas Emissions Inventory**

Scope	Component	Usage Data		GHG Emissions (tCO <sub>2</sub> e)
Scope 1 - Direct	Core Buildings [a]			
		Natural Gas for district energy	22,237.10 GJ	1,103.44
		Natural Gas for direct use	15,516.89 GJ	769.98
		Renewable natural gas (RNG) [b]	63.52 GJ	3.17
		Diesel	239.62 GJ	17.54
		Propane	67.47 GJ	4.13
	Leased Buildings [c]			
		Natural Gas for district energy	N/A GJ	N/A
		Natural gas for direct use	1,089.72 GJ	54.35
		Diesel	3.59 GJ	0.26
		Renewable natural gas (RNG)	N/A GJ	N/A
	Fleet			
		Gasoline	12,150.20 L	29.78
		Diesel	6,528.84 L	18.75
		Biodiesel	N/A L	N/A
		Natural Gas	N/A L	N/A
		Propane	71.82 L	0.11
	Fugitive Emissions			
	HFC R-410a	32.69 KG	68.25	
	HFC R-507	- KG	-	
Scope 2 - Indirect	Core Buildings - Electricity for district energy		1,282,385.91 kWh	3.32
	Core Buildings - Electricity		26,002,420.70 kWh	67.30
	Leased Buildings - Electricity		253,968.75 kWh	0.66
Scope 3 - In Scope	Paper	1,790.00 Packages	10.34	
<b>Absolute Campus Emissions under Climate Change Accountability Act (Scope 1, 2, and Paper)</b>				<b>2151</b>
<b>Total Campus Emissions for Offset under Climate Change Accountability Act (Scope 1, 2, and Paper) [d]</b>				<b>2146</b>
Scope 3 - Not required to be offset [e]	Business flights (staff and faculty) [f]			4,516
	Solid Waste [g]			408
	Commuting [g]			8,690
	Buildings LLC [g]			1,281

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

[b] UBC is required to offset the non-biogenic (CH<sub>4</sub> and N<sub>2</sub>O) 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 2020.

[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 2020 Carbon Neutral Action Report (CNAR), please visit:

<https://sustain.ok.ubc.ca/reports/cnar/>