

## **UBC Okanagan Campus - 2019 Greenhouse Gas Emissions Inventory**

Scope	Component	Usage D	Pata	GHG Emissions (tCO₂e)
Scope 1 - Direct	Core Buildings [a]			
	Natural Gas for district energy	24,182.74	GJ	1206.07
	Natural gas for direct use	17,155.28	GJ	855.57
	Renewable natural gas (RNG) [b]	85.75	GJ	4.28
	Diesel	166.92	GJ	12.25
	Propane	91.74	GJ	5.61
	Leased Buildings [c]			
	Natural Gas for district energy	N/A	GJ	N/A
	Natural gas for direct use	1,571.34	GJ	78.49
	Renewable natural gas (RNG)	N/A	GJ	N/A
	Fleet			
	Gasoline	21,057.70	L	51.03
	Diesel	4,333.00	L	12.33
	Biodiesel	N/A	L	N/A
	Natural Gas	N/A	L	N/A
	Propane	192.00	L	0.29
	Fugitive Emissions			
	HFC R-410a	18.25	KG	38.12
	HFC R-507	6.80	KG	27.11
Scope 2 - Indirect	Core Buildings - Electricity for district energy	1,421,584.95	kWh	3.68
	Core Buildings - Electricity	28,194,768.15	kWh	72.98
	Leased Buildings - Electricity	256,393.76	kWh	0.78
Scope 3 - In Scope	Paper	8,943.00	Packages	53.57
Absolute Campus (Scope 1, 2, and Page 1)	Emissions under Climate Change Accountability aper)	y Act		2422
Total Campus Emi (Scope 1, 2, and Pa	ssions for Offset under Climate Change Accoun aper) [d]	tability Act		2415
Scope 3 - Not required to be offset [e]	Business flights (staff and faculty) [f]			3,528
	Solid Waste [g]			435
	Commuting [g]			9,188
	Buildings LLC [g]			1,215

- $\hbox{\cite{al} Core buildings are comprise of academic and administrative buildings.}$
- [d] 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 2019.
- [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 2019 Carbon Neutral Action Report (CNAR), please visit:

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