

Lebanese American University

Carbon emissions for both Beirut and Byblos campuses according to The Climate Registry (TCR) GHG reporting protocol - transitional reporting

2021-2022

2021-2022															
Location	TCR Scope 1											TCR Scope 2		Grand Total	
	Power, Cooling & Electric Heating				Boilers Heating & Hot Water				Vehicles Fleet			Total Scope 1	Electricity from Electric Utility		
	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	kWh electrical produced	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	kWh thermal produced	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	CO2 Emissions (Metric Tons)	kWh	CO2 Emissions (Metric Tons)	CO2 Emissions (Metric Tons)
Beirut Campus	Diesel Oil	1,999,471	5,419	7,140,968	Diesel Oil	11,200	30	92,116	Benzene 95 Octane	27,954	65	5,514	995,632	829	6,343
Byblos Campus		2,303,934	6,244	8,228,336		111,957	303	920,802		31,566	73	6,620	763,869	636	7,257
Central															38
TOTAL		4,303,405	11,662	15,369,304		123,157	334	1,012,917		75,938	176	12,172	1,759,501	1,466	13,638

2020-2021

2020-2021															
Location	TCR Scope 1											TCR Scope 2		Grand Total	
	Power, Cooling & Electric Heating				Boilers Heating & Hot Water				Vehicles Fleet			Total Scope 1	Electricity from Electric Utility		
	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	kWh electrical produced	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	kWh thermal produced	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	CO2 Emissions (Metric Tons)	kWh	CO2 Emissions (Metric Tons)	CO2 Emissions (Metric Tons)
Beirut Campus	Diesel Oil	-	-	-	Diesel Oil	-	-	-	Benzene 95 Octane	-	-	-	-	-	-
Byblos Campus		1,258,205	3,410	4,493,589		24,189	66	198,945		-	-	3,475	2,858,239	2,381	5,856
Central															
TOTAL		1,258,205	3,410	4,493,589		24,189	66	198,945		-	-	3,475	2,858,239	2,381	5,856

2019

2019															
Location	TCR Scope 1											TCR Scope 2		Grand Total	
	Power, Cooling & Electric Heating				Boilers Heating & Hot Water				Vehicles Fleet			Total Scope 1	Electricity from Electric Utility		
	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	kWh electrical produced	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	kWh thermal produced	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	CO2 Emissions (Metric Tons)	kWh	CO2 Emissions (Metric Tons)	CO2 Emissions (Metric Tons)
Beirut Campus	Diesel Oil	486,000	1,317	1,735,714	Diesel Oil	71,000	192	583,947	Benzene 95 Octane	38,000	88	1,598	7,223,673	6,017	7,615
Byblos Campus		4,080,000	11,057	14,571,429		452,000	1,225	3,717,519		48,000	111	12,393	1,470,000	1,225	13,618
Central															42
TOTAL		4,566,000	12,374	16,307,143		523,000	1,417	4,301,466		98,200	241	14,032	8,693,673	7,242	21,274

2018

2018															
Location	TCR Scope 1											TCR Scope 2		Grand Total	
	Power, Cooling & Electric Heating				Boilers Heating & Hot Water				Vehicles Fleet			Total Scope 1	Electricity from Electric Utility		
	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	kWh electrical produced	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	kWh thermal produced	Fuel Type	Quantity (Liters)	CO2 Emissions (Metric Tons)	CO2 Emissions (Metric Tons)	kWh	CO2 Emissions (Metric Tons)	CO2 Emissions (Metric Tons)
Beirut Campus	Diesel Oil	562,000	1,523	2,007,143	Diesel Oil	71,000	192	583,947	Benzene 95 Octane	60,300	140	1,855	8,366,895	6,970	8,225
Byblos Campus		3,805,000	10,312	13,589,286		406,000	1,100	3,339,188		55,900	130	11,541	1,780,000	1,483	13,024
Central															
TOTAL		4,367,000	11,835	15,596,429		477,000	1,293	3,923,134		116,200	270	13,397	10,146,895	8,452	21,849

CO2 emissions factors

Diesel Oil	2.71	Kg CO2/L
Benzene 95 Octane	2.32	Kg CO2/L
Electricity	0.833	Kg CO2 /kWh