

Scope 1: Vehicle Fuel Consumption & Carbon Emissions

Scope 1: Vehicle Fuel Consumption & Carbon Emissions Summary				
Year	Fuel Cost (AED)	Fuel Consumption (Liters)	Kg CO2e	tCO2e
2022	28475	6299.78	14552	14.55
2023	27209.65	8195.68	18932	18.93
2024	24593.52	7363.33	17009	17.01
2025	16280	5613.79	12968	12.97
Total=	96558.17	27472.58	63461	63.46

Kg CO2e=Fuel (Liters)×2.31

***2.31: The Fuel Emission Factor (IPCC / DEFRA)**

Scope 1 Inventory by Year

2022 Inventory

Month	Fuel Cost (AED)	Fuel Consumption (Liters)	Kg CO2e	tCO2e
January	3132	692.92	1601	1.6
February	2848	630.09	1456	1.46
March	2278	503.98	1164	1.16
April	1993	440.93	1019	1.02
May	3987	882.08	2038	2.04
June	1424	315.04	728	0.73
July	1139	251.99	582	0.58
August	2278	503.98	1164	1.16
September	3417	755.97	1746	1.75
October	1709	378.1	873	0.87
November	1709	378.1	873	0.87
December	2563	567.04	1310	1.31
Total	28475	6299.78	14552	14.55

2023 Inventory

Month	Fuel Cost (AED)	Fuel Consumption (Liters)	Kg CO2e	tCO2e
January	2993	901.51	2082	2.08
February	2721	819.58	1893	1.89
March	2177	655.72	1515	1.51
April	1905	573.8	1325	1.32
May	3809	1147.29	2650	2.65
June	1360	409.64	946	0.95
July	1088	327.71	757	0.76
August	2177	655.72	1515	1.51
September	3265	983.43	2272	2.27
October	1633	491.87	1136	1.14
November	1633	491.87	1136	1.14

December	2449	737.65	1704	1.7
Total	27209.65	8195.68	18932	18.93

2024 Inventory

Month	Fuel Cost (AED)	Fuel Consumption (Liters)	Kg CO2e	tCO2e
January	2705	809.88	1871	1.87
February	2459	736.23	1701	1.7
March	1967	588.92	1360	1.36
April	1722	515.57	1191	1.19
May	3443	1030.84	2381	2.38
June	1230	368.26	851	0.85
July	984	294.61	681	0.68
August	1967	588.92	1360	1.36
September	2951	883.53	2041	2.04
October	1476	441.92	1021	1.02
November	1476	441.92	1021	1.02
December	2213	662.57	1531	1.53
Total	24593.52	7363.33	17009	17.01

2025 Inventory

Month	Fuel Cost (AED)	Fuel Consumption (Liters)	Kg CO2e	tCO2e
January	1791	617.59	1427	1.43
February	1628	561.38	1297	1.3
March	1302	448.97	1037	1.04
April	1140	393.1	908	0.91
May	2279	785.86	1815	1.81
June	814	280.69	648	0.65
July	651	224.48	519	0.52
August	1302	448.97	1037	1.04
September	1954	673.79	1556	1.56
October	977	336.9	778	0.78
November	977	336.9	778	0.78
December	1465	505.17	1167	1.17
Total	16280	5613.79	12968	12.97

Scope 2 Campus Utilities Carbon Emissions

Scope 2: Campus Utilities Carbon Emissions Summary	
Year	tCO ₂ e
2022	2360
2023	2388
2024	2656*
2025	2673*
Total=	10077

*During the COVID-19 pandemic, which included a lockdown period, the university was operating using online and hybrid-mode teaching i.e. in-person teaching was delivered to 40% of the total number of students. In addition to this observation, there was a significant increase in the enrolments in 2025 (60% increase between 2022 and 2025). This explains the apparent increase in carbon emissions despite the significant efforts made by the university.

Scope 2 Inventory by Year

2022		2023	
Month	Total Carbon Footprint TCo ₂ e	Month	Total Carbon Footprint TCo ₂ e
Jan-22	143.6848571	Jan-23	44.91428571
Feb-22	160.7017143	Feb-23	151.6031429
Mar-22	44.35085714	Mar-23	164.1002857
Apr-22	199.2897143	Apr-23	169.1662857
May-22	203.5905714	May-23	203.9075714
Jun-22	292.7457143	Jun-23	266.5758571
Jul-22	304.0024286	Jul-23	294.7071429
Aug-22	286.7041429	Aug-23	300.8898571
Sep-22	319.6712857	Sep-23	77.81142857
Oct-22	295.2017143	Oct-23	156.6648571
Nov-22	60.74171429	Nov-23	383.8484286
Dec-22	48.968	Dec-23	173.6712857
Total	2359.652714	Total	2387.860429
2024		2025	
Month	Total Carbon Footprint TCo ₂ e	Month	Total Carbon Footprint TCo ₂ e
Jan-24	130.6004286	Jan-25	121.2918571
Feb-24	144.2341429	Feb-25	152.3534286
Mar-24	139.0858571	Mar-25	148.5274286
Apr-24	156.4622857	Apr-25	171.7805714
May-24	215.9807143	May-25	230.5654286
Jun-24	275.1215714	Jun-25	266.0707143
Jul-24	285.7705714	Jul-25	302.8232857
Aug-24	305.353	Aug-25	290.5588571

Sep-24	325.4804286	Sep-25	303.0154286
Oct-24	279.4148571	Oct-25	268.2461429
Nov-24	225.9615714	Nov-25	246.0194286
Dec-24	172.8647143	Dec-25	171.946
Total	2656.330143	Total	2673.198571

HUB Building Summary

HUB-DEWA	5-Electricity Accounts		HUB-DEWA	1 Water Accounts	
Year /Month	Total Carbon Footprint Kg Co2e	Total Carbon Footprint TCo2e	Electricity	Water	
			Total Kilowatt hours(kwh)	Imperial Gallons(IG)	Cubic Meters (m3)
Jan-22	100142	100	250,352	101200	460.06
Feb-22	116928	117	292,316	175120	796.11
Mar-22	0	0	0		0.00
Apr-22	149052	149	372,625	96740	439.79
May-22	149082	149	372,697	32120	146.02
Jun-22	198876	199	497,188	34320	156.02
Jul-22	232295	232	580,732	43340	197.03
Aug-22	215343	215	538,352	113520	516.07
Sep-22	242077	242	605,187	46200	210.03
Oct-22	223956	224	559,885	53020	241.03
Nov-22		0			0.00
Dec-22		0			0.00

Year /Month	Total Carbon Footprint Kg Co2e	Total Carbon Footprint TCo2e	Electricity	Water	
			Total Kilowatt hours(kwh)	Imperial Gallons(IG)	Cubic Meters (m3)
Jan-23				45,191	205.44
Feb-23	104034	104	260,082	75,020	341.05
Mar-23	112722	113	228,210	147,400	670.09
Apr-23	117788	118	294,469	44,660	203.03
May-23	138447	138	346,111	46,640	212.03
Jun-23	191073	191	477,677	42,680	194.03
Jul-23	209162	209	522,900	40,480	184.03
Aug-23	222963	223	557,404	33,660	153.02
Sep-23					
Oct-23	73082	73	182,701	91,520	416.06

Nov-23	323005	323	807,504	91,520	416.06
Dec-23	127141	127	317,847	71,940	327.05

Year /Month	Total Carbon Footprint Kg Co2e	Total Carbon Footprint TCo2e	Electricity	Water	
			Total Kilowatt hours(kwh)	Imperial Gallons(IG)	Cubic Meters (m3)
Jan-24	90709	91	226,769	46,200	210.03
Feb-24	106305	106	265,759	81,840	372.05
Mar-24	99887	100	249,712	107,580	489.07
Apr-24	113108	113	282,769	62,920	286.04
May-24	149887	150	374,712	74,580	339.05
Jun-24	195869	196	489,668	20,900	95.01
Jul-24	218638	219	546,592	37,840	172.02
Aug-24	228409	228	571,017	25,080	114.02
Sep-24	240341	240	600,845	116,820	531.07
Oct-24	207896	208	519,737	77,880	354.05
Nov-24	168525	169	421,308	71,940	327.05
Dec-24	135859	136	339,640	130,240	592.08

Year /Month	Total Carbon Footprint Kg Co2e	Total Carbon Footprint TCo2e	Electricity	Water	
			Total Kilowatt hours(kwh)	Imperial Gallons(IG)	Cubic Meters (m3)
Jan-25	80989	81	202,469	9900.00	45.010
Feb-25	108126	108	270,312	73260.00	333.050
Mar-25	105108	105	262,764	152853.96	694.888
Apr-25	114048	114	285,117	26976.58	122.638
May-25	163714	164	409,281	72512.85	329.650
Jun-25	189985	190	474,958	57724.98	262.423
Jul-25	222005	222	555,013	23680.56	107.654
Aug-25	214704	215	536,760	39172.34	178.081
Sep-25	215964	216	539,909	7174.30	32.615
Oct-25	195277	195	488,193	168008.74	763.783
Nov-25	193712	194	484,280	122206.97	555.564
Dec-25	127834	128	319,585	103638.27	471.149

SOM Building Summary

Year /Month	Carbon Footprint Kg Co2e	Carbon Footprint TCo2e	Electricity
			Total Kilowatt hours(kwh)
Jan-22	43414.86	44	108,251
Feb-22	43645.71	44	108,823
Mar-22	44222.86	44	110,251
Apr-22	50109.71	50	124,823
May-22	54380.57	55	135,394
Jun-22	93741.71	94	232,823
Jul-22	71579.43	72	177,966
Aug-22	71233.14	71	177,109
Sep-22	77466.29	78	192,537
Oct-22	71117.71	71	176,823
Nov-22	60613.71	61	150,823
Dec-22	48840.00	49	121,680

Year /Month	Carbon Footprint Kg Co2e	Carbon Footprint TCo2e	Electricity
			Total Kilowatt hours(kwh)
Jan-23	44914.29	45	111,977
Feb-23	47569.14	48	118,549
Mar-23	51378.29	51	127,977
Apr-23	51378.29	51	127,977
May-23	65460.57	65	162,834
Jun-23	75502.86	76	187,691
Jul-23	85545.14	86	212,549
Aug-23	77926.86	78	193,691
Sep-23	77811.43	78	193,406
Oct-23	83582.86	84	207,691
Nov-23	60843.43	61	151,406
Dec-23	46530.29	47	115,977

Year /Month	Carbon Footprint Kg Co2e	Carbon Footprint TCo2e	Electricity
			Total Kilowatt hours(kwh)
Jan-24	39891.43	40	99,326

Feb-24	37929.14	38	94,469
Mar-24	39198.86	39	97,611
Apr-24	43354.29	43	107,897
May-24	66093.71	66	164,183
Jun-24	79252.57	79	196,754
Jul-24	67132.57	67	166,754
Aug-24	76944.00	77	191,040
Sep-24	85139.43	85	211,326
Oct-24	71518.86	72	177,611
Nov-24	57436.57	57	142,754
Dec-24	37005.71	37	92,183

Year /Month	Carbon Footprint Kg Co2e	Carbon Footprint TCo2e	Electricity
			Total Kilowatt hours(kwh)
Jan-25	40302.86	40	100,491
Feb-25	44227.43	44	110,206
Mar-25	43419.43	43	108,206
Apr-25	57732.57	58	143,634
May-25	66851.43	67	166,206
Jun-25	76085.71	76	189,063
Jul-25	80818.29	81	200,777
Aug-25	75854.86	76	188,491
Sep-25	87051.43	87	216,206
Oct-25	72969.14	73	181,349
Nov-25	52307.43	52	130,206
Dec-25	44112.00	44	109,920