

Assessment of Scope-3 CO₂ Emissions at EWU for the Year 2025

CO₂ Emission of Scope-3 for EWU-2025						
Category	Percent	No.	Distance (km one-way)	Days/Year	Emission Factor (kg CO ₂ /km)	Total Emissions (tCO ₂ e)
Student Commuting	16030					
Student (Bus)	0.75	12023	10	200	0.05	2405
Student (Car)	0.03	481	10	200	0.18	346
Student (Motorbike)	0.02	321	10	200	0.09	115
Student (Rikshaw)	0.10	1603	5	200	0	0
Student (Walking)	0.10	1603	0	200	0	0
Total						2866
Employee Commuting						
Employee (Micro Bus)		120	10	220	0.22	116
Employee (Car)		165	10	220	0.18	131
Employee (Motorbike)		14	10	220	0.09	6
Employee (CNG)		100	10	220	0.23	101
Employee (Rikshaw)		130	5	220		0
Employee (Walking)		160	0	220	0	0
Total		689				354
Purchased Goods & Services (BDT)	127697125				0.02	2554
Waste (ton)		4.18		210	450	395
Business travel (ton/trip)		45			1.2	54
Grand Total						6223

CO₂ Emission of Scope-1 for EWU-2025				
Types of Fuel	Quantity (liter)	Emission Factor	Total CO ₂ Emission (kg)	Total CO ₂ Emission (ton)
Diesel for Generator	1132	2.54	2875.28	2.88
Petrol for Vehicles	18743	2.3	43108.9	43.11
Total				46
Source: GHG Protocol, 2026.				

CO2 Emission of Scope-2 for EWU-2025 (Electricity)			
Quantity (kWh)	Emission Factor	Total CO2 Emission (kg)	Total CO2 Emission (ton)
3316632	0.5	1658316	1658
Source: GHG Protocol, 2026.			

Total CO2 emission Scope 1 and Scope 2 (2025)			
	Scope	tCO2	
	Scope 1	46	
	Scope 2	1658	
	Total	1704	