



University : UzSWLU
Country : Uzbekistan
Web Address: <https://www.uzswlu.uz/en#>

2. Energy and Climate Change (EC)

2.11 – Total Carbon Footprint (CO₂ Emission in the Last 12 Months)

Overview

UzSWLU conducted a comprehensive Greenhouse Gas (GHG) Emission Inventory for the 2026 reporting year, following the GHG Protocol Corporate Standard and using IPCC emission factors. Data was collected from the Fusion Energy Platform, the E-Ma'muriyat Monitoring System, and on-site audits by the Environmental Monitoring Department.

GHG Emission Inventory by Scope

Scope	Description	CO ₂ e (t/yr)	Share
Scope 1 — Direct	Fuel use from boilers, generators, and campus vehicles	48.2	1.0%
Scope 2 — Indirect (Electricity)	Purchased grid electricity: 5.227 million kWh × 0.0008 t CO ₂ /kWh	4,181.6	90.8%
Scope 3 — Other Indirect	Staff/student commuting (-48% vs 2022), waste disposal, water treatment	375.4	8.2%
TOTAL (GROSS CO₂e)		4,605	100%

Emission Reduction and Offset Measures

Reduction Activity	CO ₂ e Reduction (t/yr)	Data Source
Renewable solar energy generation (2.24 million kWh)	1,792	Fusion Energy Platform
Smart heating and LED systems	187	Facilities Audit
Tree planting and green buffer zones	14	Environmental Dept.
TOTAL REDUCTION/OFFSET	≈1,993	
NET CARBON FOOTPRINT (2026)	≈2,612 t CO₂e/yr	



Using Gross: $4,605 \div 19,243 = 0.239 \text{ t CO}_2\text{e/person}$ | Using Net: $2,612 \div 19,243 = 0.136 \text{ t CO}_2\text{e/person}$

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