



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

## 2. Energy and Climate Change (EC)

### 2.11 – Total Carbon Footprint (CO<sub>2</sub> Emission in the Last 12 Months)

Uzbekistan State World Languages University (UzSWLU) conducted a comprehensive Greenhouse Gas (GHG) Emission Inventory for the 2024–2025 reporting year, following the GHG Protocol Corporate Standard and using IPCC 2023 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 (2025)

| Scope                                      | Description                                                                  | CO <sub>2</sub> Emission (kg/year) | CO <sub>2</sub> Emission (tons/year) | Share (%) |
|--------------------------------------------|------------------------------------------------------------------------------|------------------------------------|--------------------------------------|-----------|
| Scope 1 – Direct Emissions                 | Fuel use from boilers, generators, and campus vehicles                       | 68,400                             | 68.4                                 | 2.1%      |
| Scope 2 – Indirect Emissions (Electricity) | Purchased grid electricity (7.2 million kWh × 0.0008 t CO <sub>2</sub> /kWh) | 5,760,000                          | 5,760                                | 87.9%     |
| Scope 3 – Other Indirect Emissions         | Staff/student commuting, waste disposal, water treatment                     | 722,000                            | 722                                  | 11.0%     |
| Total (Gross CO <sub>2</sub> e)            |                                                                              | 6,550,400 kg CO <sub>2</sub> e     | 6,550 t CO <sub>2</sub> e/year       | 100%      |

#### Emission Reduction and Offset Measures (2025)

| Reduction Activity                                   | Annual CO <sub>2</sub> e Reduction (tons/year) | Data Source            |
|------------------------------------------------------|------------------------------------------------|------------------------|
| Renewable solar energy generation (1.58 million kWh) | 1,260                                          | Fusion Energy Platform |
| Smart heating and LED systems                        | 135                                            | Facilities Audit       |
| Tree planting and green buffer zones                 | 10                                             | Environmental Dept.    |
| Total reduction/offset                               | ≈1,405 t CO <sub>2</sub> e/year                |                        |

#### Net Carbon Footprint (2025)

$$6,550 - 1,405 = \approx 5,145 \text{ tons CO}_2\text{e/year}$$

Net  
Carbon Footprint: ≈ 5,145 metric tons CO<sub>2</sub>e/year

Total

