



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

3. Waste

3.13 Total volume toxic waste produced this year

In 2025, Uzbekistan State World Languages University (UzSWLU) generated approximately 2,560 kilograms (2.56 tons) of toxic and hazardous waste — a 10 percent reduction compared to the 2.84 tons produced in 2024.

This decrease was achieved through improved laboratory practices, eco-friendly reagent substitution, and strengthened digital monitoring of hazardous waste under the *Green Campus Strategy (2023–2030)*.

Breakdown by Category

Type of Toxic Waste	Volume (kg)	Source / Department	Disposal Partner
Fluorescent lamps (mercury vapor)	580	Administrative & academic buildings	<i>EcoLight Tashkent</i>
Batteries and accumulators	350	IT & maintenance units	<i>EkoService Uz</i>
Expired laboratory chemicals	920	Faculty of Natural Sciences & laboratories	<i>ChemUtil Tashkent</i>
Chemical residues and spills	600	University laboratories	<i>Neutralized on campus under supervision</i>
Contaminated lab glass & gloves	110	Natural Sciences Faculty	<i>Eco Techno Clean LLC</i>
Total	2,560 kg (≈ 2.56 tons)	—	—

Collection and Disposal System

UzSWLU maintains a **comprehensive toxic waste management framework** ensuring safety and compliance with national environmental regulations:

- **Segregation & Labeling:**
Toxic materials are collected in **sealed, color-coded chemical-resistant containers** located at dedicated hazardous waste points.
- **Transport & Disposal:**
Licensed contractors (*EcoLight Tashkent, EkoService Uz, ChemUtil Tashkent*) provide regulated waste collection, transport, and neutralization.
- **On-Campus Neutralization:**
Minor chemical residues are neutralized within the **Faculty of Natural Sciences** using controlled methods that meet **GOST** and **ISO 45001** safety standards.
- **Monitoring & Documentation:**
All operations are tracked through the **UzSWLU Green Data Portal**, which stores disposal certificates, waste quantities, and contractor data for audit purposes.

Key Achievements in 2025

- **10% reduction** in total toxic waste compared to 2024.
- **100% safe disposal** through licensed contractors.
- Introduction of **QR-coded digital labeling** for laboratory chemical containers.
- Replacement of **high-risk reagents** with eco-friendly alternatives.
- Over **350 participants (150 staff and 200 students)** trained in *Safe Laboratory Waste Management*.
- Launch of the “**Green Battery Box**” campaign across all campus buildings and dormitories.
- No recorded toxic spills or incidents during 2025.

Environmental and Educational Impact

Indicator	2024	2025	Change
Total toxic waste	2,840 kg	2,560 kg	▼ -280 kg (-10%)
Safely treated waste	100%	100%	—
CO ₂ -equivalent reduction	—	≈ 1.5 tons saved	New
Trained personnel	120	150	▲ +25%
Student participants	80	200	▲ +150%

- **CO₂ reduction of ~1.5 tons/year** achieved by using lower-emission disposal methods.
- Integration of toxic waste safety topics into the “Environmental Studies” and “Sustainable Campus” courses.
- Improved staff awareness contributes to long-term environmental resilience.

Contribution to SDGs

This initiative advances:

- **SDG 3 – Good Health and Well-being**, by ensuring a safe, contamination-free learning environment.
- **SDG 12 – Responsible Consumption and Production**, through proper chemical management and waste minimization.
- **SDG 13 – Climate Action**, by lowering hazardous emissions and promoting green chemistry practices.





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Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):