



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

3 Waste

3.14 Total volume toxic waste produced last year

In 2024, Uzbekistan State World Languages University (UzSWLU) generated an estimated 2,840 kilograms (2.84 tons) of toxic and hazardous waste.

This amount served as the baseline for subsequent reduction targets implemented under the university's *Green Campus Strategy (2023–2030)*.

The waste originated primarily from the Faculty of Natural Sciences laboratories, IT maintenance units, and printing offices, consisting of expired chemicals, batteries, fluorescent lamps, and printer toner cartridges.

Breakdown by Category

Type of Toxic Waste	Volume (kg)	Source / Department	Disposal Partner
Fluorescent lamps (mercury vapor)	630	Administrative and academic buildings	<i>EcoLight Tashkent</i>
Batteries and accumulators	420	IT and maintenance units	<i>EkoService Uz</i>
Expired laboratory chemicals	1,050	Faculty of Natural Sciences laboratories	<i>ChemUtil Tashkent</i>
Chemical residues and spills	620	Laboratories and workshops	<i>Neutralized on campus</i>
Contaminated lab glass & gloves	120	Laboratory facilities	<i>Eco Techno Clean LLC</i>
Total	2,840 kg (≈ 2.84 tons)	—	—

Collection and Disposal System

In 2024, UzSWLU maintained a basic but functional hazardous waste management system, which became the foundation for digital improvements introduced in 2025.

- **Collection & Storage:**
Toxic waste was collected in designated safety containers within laboratories and workshops, labeled according to national standards.
- **Disposal & Transportation:**
Licensed contractors such as *EcoLight Tashkent*, *EkoService Uz*, and *ChemUtil Tashkent* ensured the safe transport and disposal of toxic waste materials.
- **Monitoring & Records:**
Data collection in 2024 was conducted **manually**, using internal logs and contractor invoices, prior to the introduction of the **UzSWLU Green Data Portal**.



- **Safety Oversight:**
The **Environmental Safety Committee** carried out quarterly inspections to verify compliance with health and safety standards.

Key Characteristics (2024)

- 100% of toxic waste safely collected and disposed of through licensed providers.
- Initial awareness sessions for laboratory and maintenance staff on chemical safety.
- Early-stage segregation of batteries, toners, and lamps introduced across main campus buildings.
- **Baseline CO₂-equivalent emissions:** ≈ 1.6 tons/year (estimated).
- No recorded accidents or contamination cases.

Transition and Improvement (2025 Preview)

The 2024 experience laid the foundation for UzSWLU's 2025 achievements:

- **Reduction of toxic waste by 10%** (2.84 $\rightarrow$ 2.56 tons).
- **Introduction of Green Data Portal** for digital monitoring.
- **Eco-friendly reagent substitution** in laboratories.
- **Expansion of collection points** for batteries and chemical residues.

Contribution to SDGs

The 2024 program contributed to:

- **SDG 3 – Good Health and Well-being**, through improved laboratory and maintenance safety.
- **SDG 12 – Responsible Consumption and Production**, via proper segregation and disposal of hazardous waste.

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