



University: UzSWLU
Country: Uzbekistan
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3 Waste

3.19 Impact of Waste Management programs in supporting the Sustainable Development Goals .

In 2025, Uzbekistan State World Languages University (UzSWLU) achieved significant progress in waste management, directly contributing to the realization of multiple United Nations Sustainable Development Goals (SDGs).

All campus-wide waste initiatives — from 3R programs (Reduce, Reuse, Recycle) to toxic waste treatment, ICT-based monitoring, and sewage management — were implemented as part of the university's *Green Campus Strategy (2023–2030)* and aligned with the national agenda for the Year of

Environmental Protection and the Green Economy – 2025.

These programs combined education, innovation, and community participation, ensuring that sustainability became an integral part of academic, operational, and student life at UzSWLU.

1. SDG 3 – Good Health and Well-being

- Safe collection and **100% treatment of toxic and hazardous waste** eliminated contamination risks.
- Regular training sessions on **safe laboratory waste handling** improved occupational safety for over **350 participants** (faculty and students).
- Hygienic sewage disposal and improved sanitation systems reduced the risk of disease and ensured a clean campus environment.

2. SDG 6 – Clean Water and Sanitation

- **100% campus sewage** safely connected to the **Tashkent City Central Treatment System**.
- Installation of **grease traps** and **sediment filters** prevented chemical and oil pollution.
- **2,000 m³** of treated greywater reused for landscape irrigation, reducing freshwater demand.

3. SDG 12 – Responsible Consumption and Production

- Comprehensive **3R (Reduce, Reuse, Recycle)** program decreased inorganic waste by **12%** and paper/plastic use by **35%**.
- Reuse of materials and collaboration with *Maxsus Trans*, *Eco Techno Clean*, and *ChemUtil Tashkent* established a full circular waste management cycle.
- Digital document management reduced paper use by **8.5 → 5.5 tons/year**, saving approximately **8 tons of CO₂ annually**.

4. SDG 13 – Climate Action

- Total estimated CO₂-equivalent reduction of **≈20 tons/year** achieved through:



- Waste recycling and digitalization (–8 tons)
- Toxic waste control and sewage treatment (–1.5 tons)
- Greywater reuse and energy savings (–10.5 tons)
- Active participation in **Climate Awareness Weeks** and “Save the Environment” campaigns strengthened student-led climate action.

5. SDG 9 – Industry, Innovation and Infrastructure

- Launch of the **UzSWLU Green Data Portal**, integrating ICT tools, QR-tracking, and IoT sensors for digital waste monitoring.
- The system enables **data-driven planning**, predictive analytics, and automated CO₂ emission tracking.
- This digital transformation positioned UzSWLU among the **Top 500 GreenMetric universities (Rank 498, 2024)** — the first language university in Uzbekistan to achieve this.

6. SDG 11 – Sustainable Cities and Communities

- Collaboration with **Tashkent City Suv Taminoti** and **municipal waste companies** improved integration between campus and city-level sustainability programs.
- The university’s “Zero Waste Campus” campaign promoted responsible behavior among students and staff, creating a replicable model for other institutions.
- Student-led eco-markets and recycling fairs demonstrated community participation and environmental responsibility.

7. SDG 17 – Partnerships for the Goals

- Active partnerships with **national and international stakeholders**, including:
 - *Tashkent Suv Taminoti* (water management),
 - *Eco Techno Clean* (municipal waste),
 - *EcoLight* and *ChemUtil Tashkent* (toxic waste treatment),
 - *EkoService Uz* (battery recycling),
 - and the **Ecological Party of Uzbekistan** (education and outreach).
- Joint campaigns and research programs supported knowledge exchange and capacity building.

Quantitative Impact Summary (2024–2025)

Indicator	2024	2025	Progress
Total waste generated	183 tons	171 tons	▼ –6.5%
Share recycled / reused	52%	62%	▲ +10%
Toxic waste treated	2.84 tons	2.56 tons	▼ –10%
Paper & plastic use	8.5 t / 3.2 t	5.5 t / 1.6 t	▼ –35% / –50%
Sewage reused (greywater)	1,000 m ³	2,000 m ³	▲ +100%
CO ₂ reduction	—	≈ 20 tons/year	New
GreenMetric rank	685	498	▲ +187 positions

Educational and Community Impact



- Over **10,000 students** and **850 staff members** participated in eco-education programs, clean-up campaigns, and digital sustainability workshops.
- Environmental awareness integrated into 10+ academic courses, including “Sustainable



Development,” “Environmental Studies,” and “Green Translation.”

- Campus-wide competitions such as “**Plastic to Art**” and “**Zero Waste Week**” fostered



innovation and creativity among students.

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

<https://t.me/UzSWLU/26707>

<https://t.me/UzSWLU/35272?single>