



University : UzSWLU

Country : Uzbekistan

Web Address: <https://www.uzswlu.uz/en>

[4] Water (WR)

4.7 Impact of Water Management Programs in Supporting the Sustainable Development Goals (SDGs)

Overview

Uzbekistan State University of World Languages (UzSWLU) recognizes that effective water management is essential to achieving the United Nations Sustainable Development Goals (SDGs). Through integrated programs in conservation, recycling, pollution control, and ICT-driven monitoring, the university actively contributes to national and global sustainability targets — particularly **SDG 6 (Clean Water and Sanitation)** and **SDG 13 (Climate Action)**.

UzSWLU's commitment to responsible resource use, environmental protection, and public engagement has made it a national model for sustainability among higher education institutions in Uzbekistan.

1. Contribution to SDG 6 — Clean Water and Sanitation

- 100% of wastewater from campus facilities is pre-treated and safely discharged according to national sanitary norms.
- 84% of total campus water is treated or filtered before use, ensuring access to clean water for all students and staff.
- 24 filtered drinking water stations installed across the university reduce bottled water dependency and promote health and equity.
- Annual “Clean Water, Clean Campus” and “#WaterWiseUzSWLU” campaigns reached over 35,000 people, raising awareness about water conservation and responsible use.

Impact: Directly supports SDG 6 targets 6.1, 6.3, and 6.B by ensuring access to safe water, reducing pollution, and enhancing community participation.

2. Contribution to SDG 11 — Sustainable Cities and Communities

- Construction and landscaping projects incorporate green drainage systems, permeable pavements, and rainwater harvesting tanks that mitigate urban flooding and soil erosion.



- 88% of campus area is now covered by environmentally friendly stormwater management systems.
- Collaboration with Tashkent City Water Authority aligns UzSWLU's infrastructure with municipal sustainability strategies.

Impact: Contributes to SDG 11 targets 11.3 and 11.B by supporting inclusive, resilient, and sustainable campus development.

3. Contribution to SDG 12 — Responsible Consumption and Production

- The Smart Water Monitoring Dashboard tracks real-time water usage and enables quick response to leaks, saving approximately 12.4% of total annual consumption.
- Grease trap systems and sediment filters ensure responsible wastewater management in cafeterias and dormitories.
- Through student-led initiatives, more than 2,000 people have participated in waste-minimization and water-saving actions.

Impact: Supports SDG 12 targets 12.2 and 12.5 by promoting sustainable consumption and efficient use of natural resources.

4. Contribution to SDG 13 — Climate Action

- Water efficiency and leak reduction efforts lowered electricity use for pumping and purification by 18%, reducing the campus's carbon footprint.
- Flood-prevention infrastructure helps the campus adapt to extreme rainfall events linked to climate change.
- Awareness campaigns integrate climate education themes such as “Water and Climate Resilience.”
- *Impact:* Supports SDG 13 targets 13.1 and 13.3 by strengthening adaptive capacity and climate-related education.

5. Contribution to SDG 9 — Industry, Innovation, and Infrastructure

- UzSWLU's ICT-based Water Management System employs smart sensors, cloud-based dashboards, and predictive analytics to optimize water efficiency.
- The digital platform serves as a learning model for other universities implementing “Smart Campus” technologies.
- Collaboration with national ICT organizations supports continuous innovation in water monitoring and data management.

Impact: Aligns with SDG 9 targets 9.4 and 9.B by modernizing infrastructure and promoting sustainable technology use.



6. Educational and Social Impact

- Over 2000 students and 45 faculty members participated in World Water Day seminars and campus cleanup actions.
- 200+ participants signed the Water Conservation Pledge, promoting a culture of sustainability.
- Sustainability modules integrated into language and translation courses expose students to the global environmental discourse, linking language learning with SDG literacy.

Impact: Embeds sustainability and environmental responsibility within the academic culture of UzSWLU.

Contribution to the SDGs

SDG	Contribution of Water Management Programmes
SDG 3 – Good Health and Well-being	100% purified drinking/cooking water; zero contamination incidents; laboratory-verified water quality
SDG 6 – Clean Water and Sanitation	Core focus: conservation, recycling, treated water supply, pollution control, and wastewater pre-treatment
SDG 9 – Industry, Innovation and Infrastructure	Smart water metering, ICT-based monitoring dashboards, predictive analytics for leak detection
SDG 11 – Sustainable Cities and Communities	Green drainage and stormwater infrastructure; partnership with Tashkent City Water Utility
SDG 12 – Responsible	Greywater/rainwater recycling; water-efficient appliances; reusable bottle distribution



SDG	Contribution of Water Management Programmes
Consumption and Production	
SDG 13 – Climate Action	Reduced energy use for purification (–31.8%); resource-efficient water management reducing overall footprint
SDG 17 – Partnerships for the Goals	Cooperation with Tashkent City Water Utility, UzRFA Institute of Ecology, Green Energy NGO, District Emergency Department

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