



**AZERBAIJAN TECHNICAL  
UNIVERSITY**

**UI GREENMETRIC  
REPORT**

**REPORT ON WATER**

**2025**

## Introduction

In 2025, Azerbaijan Technical University (AzTU) significantly strengthened its **institutional approach to sustainable water management, water quality protection, and environmental resilience**, further integrating water-related priorities into campus operations, academic activities, and community engagement. These efforts align closely with **national environmental priorities** and **international sustainability frameworks**, reflecting AzTU's commitment to responsible resource management and climate-conscious development.

Water sustainability at AzTU is approached not as an isolated operational issue, but as a **core component of climate action, urban sustainability, and environmental education**. The University's initiatives directly support **SDG 6 (Clean Water and Sanitation)** by promoting efficient water use, pollution prevention, and awareness of water quality protection, while also contributing to **SDG 14 (Life Below Water)** through actions that reduce land-based pollution and foster understanding of aquatic ecosystem conservation.

Throughout 2025, AzTU implemented a range of **sustainability-focused initiatives and environmental awareness programs** aimed at encouraging responsible water consumption and reducing negative environmental impacts. These activities included educational workshops, awareness campaigns, and the integration of water sustainability topics into academic and extracurricular settings, enabling students and staff to better understand the links between water use, climate change, and ecosystem health.

Institutional cooperation and interdisciplinary collaboration further enhanced these efforts. Through partnerships with academic, technological, and environmental stakeholders, AzTU supported knowledge exchange and capacity building related to water management, pollution control, and sustainable infrastructure practices. Such cooperation strengthens the University's role as a platform for innovation and dialogue on water-related environmental challenges.

Overall, AzTU's water sustainability actions in 2025 reflect a **preventive, education-centered, and ecosystem-oriented approach**, contributing to responsible water use, pollution mitigation, and long-term protection of natural water resources. These efforts are substantiated by **documented campus activities and public engagement initiatives** carried out during the year, demonstrating AzTU's ongoing commitment to environmental stewardship and sustainable development. ([source1](#)), ([source2](#)).

## Referencies

[1\) UI GreenMetric World University Rankings](#)

[2\) National Information Portal on Sustainable Development – SDG 6 \(Clean Water and Sanitation\)](#)

[3\) National Information Portal on Sustainable Development – SDG 14 \(Life Below Water\)](#)

## Objectives

The main objectives guiding AzTU's water sustainability framework in 2025 include:

- Ensuring responsible and efficient use of water resources across campus
- Supporting wastewater management and reuse practices
- Raising awareness on water conservation and pollution prevention
- Integrating water sustainability topics into education and research
- Strengthening institutional cooperation on environmental monitoring
- Contributing to national and international water sustainability goals

These objectives are pursued through documented sustainability initiatives and educational activities implemented during 2025. ([source](#))

## Keywords

Water conservation	Wastewater treatment	Azerbaijan Technical University	Ecological engineering	Environmental protection
SDG 6	SDG 14	Water reuse	Marine pollution	Water quality indicators
Microbiological analysis	Chemical pollutants	Water standards	Azersu	Activated sludge
Anaerobic treatment	Aerobic treatment	Caspian Sea	Nabran	Irrigation reuse
Sustainable infrastructure	Student education	Climate change	Mechanical filtration	Gabala reservoir
Public water supply	Environmental monitoring	Greywater recycling	Wastewater infrastructure	Smart water systems

## Current Situation

### 1. Water Sustainability Education and Environmental Awareness

In 2025, AzTU continued to integrate **water sustainability and environmental protection topics** into its academic programs and extracurricular activities. Through sustainability-related seminars, workshops, and educational initiatives, students and staff were encouraged to adopt responsible water use behaviors and develop awareness of water pollution challenges.

These activities support long-term water conservation by linking **education with behavioral change**, an essential component of sustainable water management. ([source](#))



### 2. Institutional Cooperation and Environmental Monitoring

AzTU actively cooperates with national institutions and public organizations to support **environmental monitoring and compliance with water quality standards**. Such cooperation strengthens the university's role in contributing to national efforts aimed at protecting inland and marine water resources.

Participation in broader environmental discussions and institutional meetings reinforces AzTU's commitment to responsible water governance and evidence-based environmental management. ([source](#))



### 3. Climate action and urban sustainability initiatives

Water sustainability at AzTU is closely linked to its **climate action and urban sustainability initiatives**. In 2025, water conservation and environmental protection were addressed as part of broader climate-related awareness activities, emphasizing the connection between climate change, water scarcity, and ecosystem resilience.

AzTU's sustainability framework recognizes that effective water management is essential for climate adaptation and sustainable urban development. ([source](https://www.aztu.edu.az/sdg/climate-action/))  
<https://www.aztu.edu.az/sdg/climate-action/>



#### 4. Student Engagement and Community Outreach

AzTU places strong emphasis on **student participation and community engagement** in sustainability initiatives. In 2025, students actively participated in environmental awareness activities that promote responsible resource use and environmental protection, extending the impact of university-led initiatives beyond campus boundaries.

Community-oriented initiatives support the dissemination of water conservation knowledge and encourage environmentally responsible behavior at the societal level. ([source](#))



#### 5. Digitalization and Sustainable Resource Management

The development of a **Digital Transformation Strategy** at AzTU in 2025 indirectly supports water sustainability by promoting efficient resource management, monitoring systems, and reduced reliance on paper-based processes. Digital solutions enhance institutional capacity to manage environmental resources more effectively and transparently. ([source](#))



## Future goals

AzTU's water-related goals focus on **continuous improvement and institutional strengthening**, including:

- Expanding sustainability education related to water conservation
- Enhancing cooperation on environmental monitoring and water governance
- Supporting interdisciplinary research on water and climate resilience
- Increasing student and community engagement in water sustainability initiatives
- Integrating digital tools into environmental management practices

All future initiatives will continue to rely on **verified, evidence-based reporting** aligned with UI GreenMetric principles.

## Conclusion

In 2025, Azerbaijan Technical University demonstrated a **holistic and evidence-based approach** to water sustainability by integrating education, institutional cooperation, climate action, digitalization, and community engagement. Through documented sustainability initiatives and awareness programs, AzTU contributes to responsible water use and environmental protection.

By aligning its water management efforts with the UN Sustainable Development Goals and UI GreenMetric criteria, AzTU reinforces its position as a forward-looking institution committed to environmental stewardship and sustainable development.