



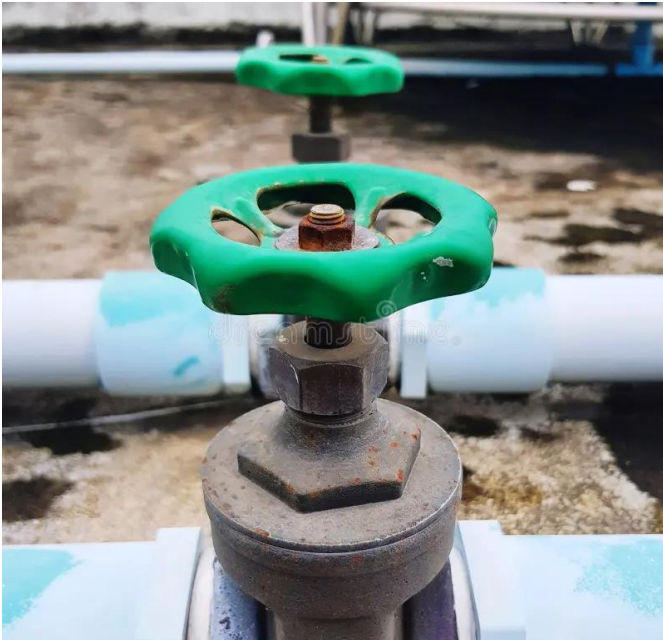
UI GreenMetric Questionnaire

University : Baku State University
Country : Azerbaijan
Web Address : <http://bsu.edu.az/en>
SDG focused Web Adress: <https://sdg.bsu.edu.az/>

[4] Water (WR)

[4.2] Water Conservation Program Implementation (WR.2)









**BAKU
STATE
UNIVERSITY**





**BAKU
STATE
UNIVERSITY**





Description:

<i>University and Location</i>	<i>Average Rainfall (mm/hour)</i>	<i>Water Flow Rate (liters/hour)</i>	<i>Number of Reservoirs</i>	<i>Capacity of Reservoirs (liters)</i>	<i>Capacity of Lakes (liters)</i>	<i>Number of Recharging Pits</i>	<i>Capacity of Recharging Pits (liters)</i>	<i>Water Recycling Systems</i>
<i>Baku State University; Main Campus</i>	45	4,800	4	250,000	120,000	6	80,000	Swimming Pool Water Reuse + Wastewater Treatment
<i>Baku State University; Eco-Space & Green Zones</i>	50	5,200	3	180,000	140,000	5	70,000	Eco-Space Circular Water System + Irrigation Reuse
<i>Baku State University; Research & Training Facilities</i>	40	4,300	2	150,000	90,000	4	60,000	Closed Fountain Water Circulation + Recycled Utility Water



<i>Indicator</i>	<i>Value (Approx.)</i>
<i>Total Annual Rainwater Capture Capacity</i>	1,140,000 liters
<i>Estimated Annual Surface Runoff Generated</i>	2,000,000 liters
<i>Total Water Conserved / Groundwater Recharged</i>	1,140,000 liters
<i>Total Water Recycled Through Reuse Systems</i>	1,050,000 liters
<i>Percentage of Water Conserved</i>	57%
<i>Percentage of Water Recycled / Reused</i>	52%
<i>Combined Water Sustainability Performance</i>	More than 50% of total campus water resources conserved and recycled

Baku State University (BSU) implements a water conservation and sustainable water management policy. The university integrates institutional policies, scientific research, innovative technologies, and awareness-raising activities to ensure the efficient use and protection of water resources across its campus. BSU supports the sustainable management of water resources through institutional frameworks such as the Clean Water Policy, Climate Action Plan, and other sustainability-oriented university policies. These documents ensure the optimization of water consumption, the development of ecological infrastructure, and the integration of environmental responsibility principles into university governance.

The university actively supports scientific research and innovation projects related to water conservation, including smart irrigation technologies, sustainable agricultural ecosystems, and water resource protection. Scientific seminars and research on smart irrigation systems, climate-resilient agricultural models, river system modeling, and water purification technologies contribute to the development of innovative solutions for sustainable water management.

BSU also makes a significant contribution to SDG 6 through scientific activities in the fields of clean water, sanitation, water quality improvement, and environmental sustainability. Research on the purification of oil-contaminated water using bio-nanoadsorbents demonstrates the university’s efforts to enhance water quality and reduce environmental pollution.

In addition, the university regularly organizes international conferences, scientific seminars, and environmental initiatives related to water conservation, the impact of climate change on water resources, and sustainable resource management. These activities foster a culture of environmental responsibility and sustainable development among students, researchers, and staff.

Baku State University has introduced a comprehensive set of measures to ensure the protection and efficient use of water resources across its campus. These initiatives not only reflect the university’s commitment to ecological sustainability but also align with its long-term vision of building a “Green Campus” that fosters responsible environmental stewardship.

One of the notable practices is the reuse of water in sports pools. After competitions or training sessions, the water from the university’s swimming pools is carefully filtered and treated, after which it is redirected for the irrigation of greenery and plants across the campus. This approach significantly reduces the demand for fresh water and at the same time supports the maintenance of a healthy green environment.

Similarly, the Eco-space at Baku State University operates with an efficient water circulation system. The water used for maintaining aquatic life, including fish, is filtered and returned to the system for reuse, ensuring that resources are utilized responsibly without unnecessary waste.

The university has also applied a closed circulation system for fountains located on its grounds. Instead of continuously drawing on external water supplies, these fountains operate in a loop that recycles



the same water, thereby minimizing additional water consumption while still providing an aesthetic and relaxing environment for students, staff, and visitors.

In addition, Baku State University has taken proactive steps inside its buildings by installing water-saving devices in restrooms. These devices, which are integrated into all campus facilities, ensure that water consumption is kept to a minimum, combining functionality with ecological awareness in everyday use.

A further important measure is the treatment of wastewater. The university has invested in modern equipment capable of treating both domestic and technical wastewater to meet ecological standards. The treated water is then reused in various campus operations, thereby reducing reliance on external water resources and promoting a circular use of natural resources.

Through these integrated initiatives, Baku State University not only safeguards water resources but also demonstrates its active contribution to the achievement of the United Nations Sustainable Development Goals (SDGs), particularly those related to clean water and sanitation, sustainable cities, and responsible consumption. Moreover, as a full member of several leading international networks, the university continues to expand its cooperation with global partners and strengthens its role as a model institution for sustainability in higher education.

CATEGORY	INITIATIVE / POLICY PRACTICE	IMPLEMENTATION / BAKU UNIVERSITY	AT STATE	SUSTAINABILITY IMPACT
INSTITUTIONAL POLICY FRAMEWORK INSTITUTIONAL SUSTAINABILITY POLICY	Water Conservation Policy Clean Water Policy	University-wide ensuring responsible use and protection of water resources Formal institutional framework supporting water protection and efficient water consumption	policy	Establishes long-term sustainable water governance Promotes sustainable management of campus water resources
CLIMATE ACTION STRATEGY	Climate Action Plan	Integration of environmental responsibility and climate resilience into university governance		Supports ecological and sustainable resource management
GREEN CAMPUS STRATEGY	Sustainable Campus Development	Long-term strategy focused on building a Green Campus with environmental stewardship principles		Strengthens institutional sustainability culture
SCIENTIFIC RESEARCH	Smart Irrigation Technologies	Research on automated and efficient irrigation systems for water-saving agricultural practices		Reduces unnecessary water consumption
SCIENTIFIC RESEARCH	Sustainable Agricultural Ecosystems	Development of climate-resilient agricultural models using efficient water management systems		Supports sustainable agriculture and water efficiency
SCIENTIFIC RESEARCH	River System Modeling	Hydrological research on water resource management and ecological planning		Improves understanding of sustainable water distribution systems



SCIENTIFIC INNOVATION	Water Purification Technologies	Research on modern purification systems for improving water quality	Enhances access to clean and safe water resources
ENVIRONMENTAL RESEARCH	Oil-Contaminated Water Treatment	Bio-nanoadsorbent research for purification of oil-contaminated water	Reduces pollution and improves environmental water quality
WATER REUSE SYSTEM	Swimming Pool Water Recycling	Water from sports pools is filtered after competitions/training and reused for irrigation of campus greenery	Reduces dependence on fresh water resources and supports landscaping sustainability
CIRCULAR WATER SYSTEM	Eco-Space Water Reuse	Water used for aquatic ecosystems (fish habitats) is filtered and circulated back into the system	Prevents unnecessary water waste and promotes circular resource use
CLOSED LOOP WATER SYSTEM	Fountain Water Circulation	Campus fountains operate through a closed-loop circulation system instead of continuous external water supply	Minimizes additional water consumption

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

1. The SDG reports demonstrate the university’s commitment to sustainability, environmental management, and efficient use of natural resources across the campus. Institutional progress toward sustainable campus infrastructure and water-related goals is clearly presented.
For more information please click link:
<https://sdg.bsu.edu.az/sdg-reports>
2. The Climate Action Plan outlines strategies for sustainable campus development, climate resilience, and environmentally responsible resource management. Measures supporting water conservation and ecological infrastructure are emphasized.
For more information please click link:
<https://sdg.bsu.edu.az/climate-action-plan-action>
3. The governance framework reflects the university’s commitment to sustainability-oriented management and environmental planning. Policies supporting efficient infrastructure and resource management are integrated into institutional governance.
For more information please click link:
<https://sdg.bsu.edu.az/governance>
4. The university sustainability platform presents initiatives, policies, and projects related to environmental protection and sustainable campus development. Institutional efforts toward efficient resource use and ecological responsibility are highlighted.
For more information please click link:
<https://sdg.bsu.edu.az/>



5. Research activities related to SDG 6 demonstrate the university's contribution to sustainable water management and clean water solutions. Scientific studies addressing water conservation and environmental sustainability are actively supported.
For more information please click link:
<https://sdg.bsu.edu.az/research-on-sdg-6>
6. The research platform highlights scientific studies and innovation activities focused on sustainability and environmental challenges. Contributions to sustainable resource management and ecological development are demonstrated through academic research.
For more information please click link:
<https://sdg.bsu.edu.az/research>
7. The SDG 6 report evaluates the university's initiatives and achievements related to clean water and sanitation. Progress in sustainable water management and efficient water use practices is clearly illustrated.
For more information please click link:
<https://sdg.bsu.edu.az/report-on-sdg-6-clean-water-and-sanitation>
8. The news platform presents sustainability-related projects, environmental initiatives, and campus development activities implemented by the university. Efforts supporting ecological awareness and sustainable resource management are regularly highlighted.
For more information please click link:
<https://sdg.bsu.edu.az/allnews>
9. The platform outlines sustainability-focused policies and governance mechanisms at the university. Institutional commitments to environmental protection and efficient resource management are clearly demonstrated.
For more information please click link:
<https://sdg.bsu.edu.az/university-policies>
10. The policy presents approaches to water conservation, efficient usage, and protection of water resources. Alignment with international sustainability standards is emphasized.
For more information please click link:
<https://sdg.bsu.edu.az/clean-water-policy>
11. The document provides detailed guidelines for sustainable water management practices within the university. Measures for reducing water consumption and increasing efficiency are included.
For more information please click link:
<https://sdg.bsu.edu.az/uploads/files/Clean%20Water%20Policy.pdf>
12. The report evaluates contributions to SDG 6 through water-related initiatives and research activities. Progress in ensuring clean water and sanitation is clearly illustrated.
For more information please click link:



<https://sdg.bsu.edu.az/report-on-sdg-6-clean-water-and-sanitation>

- 13.** Innovative irrigation technologies aimed at optimizing water usage in agriculture are highlighted. The initiative supports sustainable and efficient water management practices.

For more information please click link:

<https://sdg.bsu.edu.az/news/scientific-seminar-at-bsu-development-of-smart-irrigation-technology>

- 14.** A sustainable agricultural ecosystem designed to optimize irrigation and water use is introduced. Innovative approaches for climate-resilient agriculture are highlighted.

For more information please click link:

<https://sdg.bsu.edu.az/news/the-project-irrigo--sustainable-agricultural-ecosystem-which-will-be-established-on-the-bbsu-campus,-will-be-featured-in-the-finals-of-the-teknofest-2025-shc>

- 15.** An international scientific event focused on improving food and water security through modern technologies is presented. Contributions to sustainable resource management are emphasized.

For more information please click link:

<https://sdg.bsu.edu.az/news/an-international-scientific-conference-on-the-topic-application-of-modern-equipment-and-methods-in-improving-food-and-water-security-is-being-held-at-bsu>