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**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)**

**[4.6] Water pollution control in campus area (WR.6)**



**Baku State University**



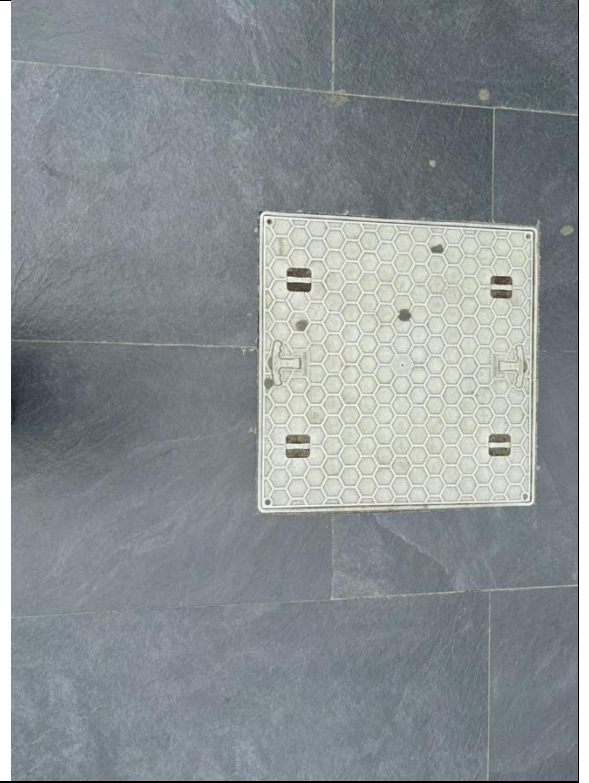
**CLEAN WATER POLICY**

**SUSTAINABLE DEVELOPMENT GOALS**





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### **Description:**

Baku State University implements various policies and initiatives to support water pollution control, sustainable water management, and environmental protection within the campus area. The university promotes responsible water use, water conservation, and pollution prevention through institutional governance, sustainability strategies, and SDG-oriented activities.

The university supports environmentally friendly water management practices and encourages scientific research related to water quality improvement, river ecosystem protection, wastewater treatment, and sustainable irrigation technologies. Research projects on purification of oil-contaminated water, river system modeling, ecological assessment of reservoirs, and climate impacts on water resources contribute to sustainable environmental management and pollution control.

Baku State University also carries out monitoring and evaluation activities related to water ecosystems, hydrological processes, and ecological sustainability. Scientific seminars, environmental research, and sustainability reports support awareness raising and continuous improvement of water resource management practices.

The university aligns its environmental policies and water management practices with Sustainable Development Goal 6 (Clean Water and Sanitation) and promotes ecological responsibility through sustainability-focused projects, governance mechanisms, and environmental initiatives implemented across the campus.

**Policy:** Baku State University implements sustainability and environmental protection policies to support clean water management, pollution prevention, and efficient use of water resources. The university



promotes ecological responsibility through institutional governance, sustainable campus initiatives, and SDG-related activities.

**Wastewater Treatment:** Baku State University supports sustainable wastewater management and promotes environmentally friendly water treatment practices. Research and innovation projects related to water purification and efficient irrigation technologies contribute to reducing water pollution and improving water sustainability.

**Guideline standard:** The university follows sustainability principles and water management guidelines aligned with SDG 6 and environmental protection objectives. Institutional policies encourage water conservation, pollution prevention, and responsible resource management.

**Monitoring and Evaluation:** Baku State University carries out research and monitoring activities related to water ecosystems, river systems, and environmental sustainability. Scientific studies and environmental assessments support sustainable water management and ecological monitoring.

Baku State University (BSU), guided by the principles of sustainable development and environmental protection, implements systematic and comprehensive measures to conserve water resources, maintain water purity, and ensure efficient water use. These initiatives integrate operational efficiency, research, and educational activities, reflecting BSU's commitment to ecological responsibility and the creation of a "Green Campus." Within this framework, the university carries out the following key activities:

### **1. Development of Equipment for Wastewater Treatment and Reuse**

Within the framework of the "Irrigo – Sustainable Agricultural Ecosystem" project developed at BSU's Student Scientific and Technical Creativity Center; a specialized wastewater treatment device has been created. This innovative equipment:

- Treats industrial, laboratory, and domestic wastewater.
- Determines the water composition through advanced filtration, chemical, and mineral analysis processes.
- Prepares water for safe reuse, particularly for irrigation of green spaces, maintenance of water bodies, and other non-consumptive applications.

The device allows precise adjustment of water composition and mineral enrichment according to the specific needs of plants, laboratories, or technical processes. Through this system, BSU ensures that **50%–75% of treated water is effectively reused**, significantly reducing freshwater consumption while maintaining ecological balance.

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### **2. Water Circulation through Filtration Systems**

- Campus ponds, fountains, and other water bodies are equipped with modern filtration and recirculation systems.
- These systems continuously purify and circulate water, preventing unnecessary wastage of clean water.
- Purified water is reused for watering campus greenery, maintaining plant health, and fulfilling certain technical needs such as cleaning or cooling systems.

By integrating these closed-loop systems, BSU not only conserves water but also demonstrates best practices in campus water management that can be applied in urban and institutional contexts.

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### **3. Water Purification for Aquariums and Aquatic Life**

- Continuous water purification and monitoring systems are installed in the university's aquariums, Eco-space aquaponics systems, and other aquatic habitats to maintain optimal living conditions for fish and aquatic plants.
- These systems preserve both the biological and chemical quality of the water, ensuring the wellbeing of aquatic life and allowing **cyclical reuse of the same water**.



- The aquaponics and ecological research areas serve as living laboratories, offering students and researchers hands-on experience with sustainable water management practices.

#### 4. Awareness, Research, and Educational Activities

- BSU actively promotes scientific research and student-led projects focusing on preventing water pollution, conserving water resources, and improving water use efficiency.
- The university participates in international collaborative projects related to aquatic ecosystems, including studies involving the Caspian Sea and the Kura River.
- Reporting on water management practices and reuse is aligned with the **WR.3 indicator under the United Nations Sustainable Development Goals (SDGs)**, ensuring transparency and accountability.
- Regular workshops, seminars, and educational campaigns are conducted to raise awareness among students, staff, and the wider community about sustainable water use, reinforcing a culture of environmental stewardship.

#### 5. Integration with Campus Infrastructure and Sustainability Goals

- All university buildings are equipped with modern water-saving devices, including low-flow faucets, dual-flush toilets, and sensor-activated taps, contributing to water efficiency.
- Laboratories, cafeterias, and recreational facilities have been upgraded with water-efficient appliances, enabling **more than 80% of campus water fixtures to meet water-efficient standards**.
- These measures support multiple SDGs, particularly **SDG 6 (Clean Water and Sanitation)** and **SDG 12 (Responsible Consumption and Production)**, while fostering experiential learning opportunities that link academic curricula with practical sustainability initiatives.

Through these comprehensive activities, Baku State University demonstrates a holistic approach to water conservation that combines operational efficiency, innovative research, environmental education, and active participation in global sustainability networks. The university not only minimizes environmental impact but also prepares its students and researchers to become leaders in sustainable water management and ecological stewardship.

<i>Policy Framework</i>	<i>Implementation at BSU</i>	<i>Sustainability Objective</i>	<i>Impact</i>
<i>Environmental Protection Policy</i>	University-wide sustainability governance system	Water conservation and pollution prevention	Strengthens institutional environmental responsibility
<i>SDG 6 Alignment Strategy</i>	Integration of Clean Water and Sanitation goals	Sustainable water resource management	Ensures global sustainability compliance
<i>Water Management Guidelines</i>	Institutional water conservation standards	Efficient and responsible water use	Reduces water wastage
<i>Green Campus Policy</i>	Campus sustainability and ecological development strategy	Environmental protection and resource efficiency	Supports long-term ecological balance



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

1. 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>
2. 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>
3. 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>
4. 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>
5. 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>
6. The impact of climate change on water resources and related environmental challenges is discussed. The importance of adaptive strategies for sustainable water management is highlighted.  
For more information please click link:  
<https://sdg.bsu.edu.az/news/chief-engineer-of-adsea-delivers-lecture-at-baku-state-university-on-the-impact-of-climate-change-on-water-resources>
7. An initiative promoting environmental awareness and sustainable campus practices is introduced. Integration of ecological design with efficient resource use is demonstrated.  
For more information please click link:  
<https://sdg.bsu.edu.az/news/new-unique-project--eco-space-at-the-university>
8. Research on innovative methods for purifying oil-contaminated water using advanced materials is described. Contributions to improving water quality and environmental sustainability are emphasized.  
For more information please click link:  
<https://sdg.bsu.edu.az/news/bsu-conducts-research-on-purification-of-oil-contaminated-water-using-bio-nanoadsorbents>
9. The ecological condition of the Hekerichay reservoir is evaluated through scientific analysis. Insights into water quality and environmental sustainability challenges are provided.  
For more information please click link:  
<https://sdg.bsu.edu.az/news/an-assessment-of-the-ecological-situation-in-the-hekerichay-reservoir-was-conducted-at-bsu>
10. River system modeling is used to better understand water flow and environmental dynamics. Support for sustainable water resource management is demonstrated.  
For more information please click link:



<https://sdg.bsu.edu.az/news/scientific-seminar-on-modeling-the-hakari-river-at-bsu>

11. Morphological changes of riverbeds in the Greater Caucasus are analyzed. Understanding of hydrological processes and environmental risks is enhanced.  
For more information please click link:  
<https://sdg.bsu.edu.az/news/morphodynamics-of-riverbeds-in-the-greater-caucasus-studied-at-bsu>
12. 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-irri-go--sustainable-agricultural-ecosystem-which-will-be-established-on-the-bbsu-campus,-will-be-featured-in-the-finals-of-the-teknofest-2025-shc>
13. 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>
14. 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>
15. 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>
16. 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>
17. 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/>
18. 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>
19. 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:



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<https://sdg.bsu.edu.az/research>

20. 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>