

UI GreenMetric Questionnaire

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

[3] Waste (WS)

[3.17] Sewage Disposal (WS.6)



Example of Sewage Disposal

Component	Description	Implementation / Status
Institutional Commitment	Baku State University (BSU) is committed to sustainable wastewater management by ensuring that all sewage generated on campus is safely collected, transferred for tertiary wastewater treatment, and discharged or reused in accordance with national environmental legislation and the university's sustainability policy.	✅ Fully Implemented
Wastewater Treatment	Wastewater undergoes a tertiary treatment process that includes physical, biological, and advanced purification stages to remove suspended solids, organic pollutants, nutrients, and pathogenic microorganisms before environmentally safe discharge or reuse.	✅ Tertiary Treatment Applied
Regulatory Framework	Wastewater management is implemented in compliance with the Laws of the Republic of Azerbaijan, including the Law on Water Supply and Wastewater, Law on Environmental Safety, Law on Sanitary and Epidemiological Wellbeing, Law on Waste, and related sanitary and environmental regulations.	✅ Full Compliance
National Service Provider	BSU is connected to the centralized municipal sewerage system operated by "Azersu" JSC, the national authority responsible for sewerage infrastructure, wastewater collection, transportation, treatment, maintenance, modernization, and environmentally safe discharge.	✅ Connected to Centralized System



Campus Sewerage Infrastructure	Domestic wastewater from academic buildings, laboratories, dormitories, cafeterias, administrative offices, and other facilities is collected through the university's internal sewerage network and transferred to municipal treatment facilities.	✓ 100% Connected
Hazardous Laboratory Wastewater	Hazardous liquid waste generated from laboratories and research activities is managed separately from domestic wastewater. Chemical reagents, toxic substances, biological residues, and other hazardous liquids are collected in specially designated and labeled containers and are never discharged directly into the sewerage system.	✓ Separate Collection System
Hazardous Waste Disposal	Hazardous liquid waste is temporarily stored under controlled conditions and transferred only to licensed organizations authorized to treat and dispose of hazardous waste according to environmental and sanitary regulations.	✓ Fully Controlled
Monitoring and Maintenance	The university's sanitary and technical services regularly inspect sewerage infrastructure, clean pipelines, monitor drainage systems, perform preventive maintenance, respond rapidly to technical failures, and implement corrective actions to ensure uninterrupted operation and environmental safety.	✓ Continuous Monitoring
Environmental Protection Measures	Preventive maintenance and continuous monitoring reduce leakages, blockages, groundwater contamination, pollution risks, and ensure hygienic conditions throughout the campus.	✓ Ongoing
Water Quality Assurance	Continuous monitoring and periodic testing ensure that wastewater treatment processes comply with environmental discharge standards and protect surrounding ecosystems and public health.	✓ Regular Testing
Water Reuse	Where technically feasible, treated wastewater may be reused for non-potable applications such as landscape irrigation, campus cleaning, and other maintenance activities to improve water efficiency.	✓ Implemented Where Applicable
Environmental Education and Awareness	BSU regularly organizes seminars, workshops, awareness campaigns, and training programs for students, academic staff, researchers, and technical personnel on wastewater management, pollution prevention, water conservation, laboratory chemical safety, and environmentally responsible practices.	✓ Regular Activities
Communication and Guidance	Information boards, posters, digital displays, university web resources, and laboratory guidelines are used to educate campus users on proper sewerage use, safe disposal practices, hazardous waste segregation, neutralization, temporary storage, and environmental protection.	✓ Campus-wide Implementation
Sustainability Contribution	The integrated wastewater management system protects public health, conserves water resources, prevents environmental pollution, ensures legal compliance, and contributes to SDG 6 (Clean Water and Sanitation), SDG 12 (Responsible Consumption and Production), and SDG 13 (Climate Action).	✓ Significant Contribution

Description:

Baku State University (BSU) is committed to sustainable wastewater management by ensuring that all sewage generated on campus is collected, treated through a tertiary wastewater treatment process, and discharged or reused in compliance with national environmental regulations. The treatment system



incorporates physical, biological, and advanced purification processes to remove suspended solids, organic pollutants, nutrients, and pathogenic microorganisms, thereby minimizing environmental impacts and protecting public health. Continuous monitoring, preventive maintenance, and regular water quality testing ensure that the treated effluent consistently meets the required discharge standards. Where feasible, treated wastewater is reused for non-potable purposes such as landscape irrigation and campus cleaning, supporting the university's resource efficiency and sustainability objectives.

In the Republic of Azerbaijan, the management of sewerage systems and wastewater is primarily carried out by "Azersu" JSC, which functions as the main state institution responsible for water supply and sanitation services across the country. The activities of this institution include the planning, construction, modernization, operation, maintenance, and expansion of centralized sewerage infrastructure, as well as the collection, transportation, treatment, and environmentally safe discharge of wastewater through specialized treatment facilities. These processes are regulated by a comprehensive national legislative framework, including the Law of the Republic of Azerbaijan "On Sanitary and Epidemiological Wellbeing," the Law "On Environmental Safety," the Law "On Water Supply and Wastewater," the Law "On Waste," and other related normative-legal acts and sanitary standards. The principal objective of these regulations is to ensure the protection of public health, preservation of water resources, prevention of environmental pollution, and sustainable management of wastewater in accordance with ecological norms and international environmental principles.

At Baku State University, the management of sewerage and wastewater systems is implemented through an integrated institutional approach aligned with national environmental legislation and the university's sustainability policy. The university operates under internal sanitary-technical regulations that govern the safe use, monitoring, and maintenance of wastewater infrastructure across academic buildings, laboratories, dormitories, administrative facilities, and other campus units. Domestic wastewater generated within the university is connected to the centralized municipal sewerage network and is transferred to treatment facilities managed by "Azersu" JSC for further purification and environmentally compliant discharge.

In addition to domestic wastewater management, special attention is given to the handling of hazardous, chemical, and laboratory-generated liquid waste arising from scientific research and educational activities conducted in university laboratories and research centers. Such waste streams are managed separately from general wastewater in accordance with sanitary-hygienic requirements and environmental safety standards. Hazardous liquid waste containing chemical reagents, toxic substances, biological residues, or other potentially dangerous materials is collected in specially designated and labeled containers and is not discharged directly into the public sewerage system. Instead, these materials are temporarily stored under controlled conditions and transferred only to authorized institutions licensed for hazardous waste treatment and disposal. This approach minimizes risks to human health, prevents contamination of water bodies and soil resources, and ensures compliance with environmental protection regulations.

The university's sanitary-technical and maintenance services conduct regular inspections and monitoring of the sewerage infrastructure to ensure uninterrupted operation and to prevent environmental or sanitary risks. These activities include periodic cleaning of pipelines, monitoring of drainage systems, preventive maintenance of sewerage networks, rapid response to technical malfunctions, and implementation of corrective measures when necessary. Continuous supervision of wastewater systems contributes to the reduction of leakages, blockages, and pollution risks while maintaining hygienic conditions throughout the campus environment.

As part of its commitment to sustainable development and environmental responsibility, Baku State University also places significant emphasis on awareness-raising and environmental education



related to wastewater management and sewerage system protection. The university regularly organizes seminars, training sessions, workshops, and informational campaigns for students, academic staff, researchers, and technical personnel on the importance of proper wastewater management, compliance with sanitary and epidemiological requirements, and the environmental consequences of improper disposal practices. These educational activities address issues such as water pollution prevention, efficient use of water resources, safe handling of laboratory chemicals, and environmentally responsible behavior within educational institutions.

Furthermore, visual communication tools such as information boards, posters, digital screens, university web resources, and awareness materials are actively utilized across campus to promote correct use of sewerage systems and environmentally safe disposal practices. Laboratory personnel and researchers are additionally provided with specialized technical guidelines concerning the segregation, neutralization, temporary storage, and disposal of hazardous liquid waste generated during experimental and scientific activities.

Component	Description / Performance	Status
Sewage Collection	All wastewater generated from academic buildings, laboratories, administrative offices, dormitories, cafeterias, and other campus facilities is collected through the campus sewer network.	✓ 100% Collected
Primary Treatment	Removal of coarse solids, grit, and floating materials through screening and sedimentation.	✓ Implemented
Secondary Treatment	Biological treatment removes dissolved organic matter, reducing Biological Oxygen Demand (BOD) and Chemical Oxygen Demand (COD).	✓ Implemented
Tertiary Treatment	Advanced filtration, nutrient removal (nitrogen and phosphorus), and final disinfection (UV and/or chlorination) produce high-quality treated effluent.	✓ Fully Implemented
Wastewater Treated	Total sewage receiving tertiary treatment before discharge or reuse.	✓ 100%
Effluent Quality Monitoring	Routine monitoring of pH, BOD, COD, Total Suspended Solids (TSS), nutrients, and microbiological parameters to ensure regulatory compliance.	✓ Regular Monitoring
Sludge Management	Sludge generated during treatment is safely handled, stabilized, and disposed of or recovered according to environmental regulations.	✓ Environmentally Managed
Water Reuse	Treated wastewater is reused where appropriate for landscape irrigation, campus cleaning, and other non-potable applications, reducing freshwater demand.	✓ Implemented Where Feasible
Environmental Protection Measures	Regular maintenance of sewer infrastructure, leak prevention, pollution control, and environmental audits minimize impacts on surrounding ecosystems.	✓ Ongoing



**Compliance and
Sustainability**

The wastewater management system complies with national environmental regulations and supports SDG 6 (Clean Water and Sanitation), SDG 12 (Responsible Consumption and Production), and SDG 13 (Climate Action).

 Fully Compliant

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

1. The “Research on SDG 6: Clean Water and Sanitation” page of Baku State University presents the university’s scientific activities aimed at sustainable water resource management, water quality monitoring, and wastewater treatment. It highlights BSU’s contribution to addressing water-related environmental challenges and supporting safe and efficient access to clean water in line with sustainable development goals.
For more information click: <https://sdg.bsu.edu.az/research-on-sdg-6>
2. The Law of the Republic of Azerbaijan “On Water Supply and Wastewater” serves as the main regulatory and legal framework governing the organization, management, and regulation of water supply and sewerage services in the country. The law defines the principles for the efficient use of water resources, safe wastewater management, protection of sanitary and hygienic standards, as well as the rights and responsibilities of service providers and consumers.
For more information click: <https://e-qanun.az/framework/7916>
3. The Law of the Republic of Azerbaijan No. 677-IQ “On Environmental Safety” establishes the legal framework for ensuring environmental safety, protecting the environment, and safeguarding human health from natural and anthropogenic impacts in the country. The law defines the rights and responsibilities of state authorities, legal entities, and individuals in the field of environmental safety, as well as the mechanisms for the prevention and management of environmental risks.
For more information click: [677-IQ - Ekoloji təhlükəsizlik haqqında](https://e-qanun.az/framework/677-IQ-Ekoloji-tahlukəsizlik-haqqında)
4. The Law of the Republic of Azerbaijan “On Water Supply and Wastewater” establishes the main legal framework for the management, operation, and regulation of water supply and sewerage systems in the country. The law sets out requirements related to ensuring the population’s access to safe drinking water, the safe discharge of wastewater, and the protection of sanitary and hygienic standards.
For more information click: <https://e-qanun.az/framework/74>
5. The news reports on Baku State University’s participation in the “Caspian Agro – 18th Azerbaijan International Agriculture Exhibition,” where the university showcased its scientific research and innovative approaches in the field of agriculture. The event highlights BSU’s contribution to the development of sustainable agriculture and the promotion of modern agro-technologies in line with national development priorities.
For more information click: <https://sdg.bsu.edu.az/news/bsu-is-represented-at-caspian-agro--the-18th-azerbaijan-international-agriculture-exhibition>
6. The website “sdg.bsu.edu.az” is the official Sustainable Development Goals (SDG) platform of Baku State University, providing information about the university’s activities, reports, and initiatives related to the UN Sustainable Development Goals. It highlights BSU’s contributions to education, research, and community engagement aimed at promoting sustainability at local and global levels.
For more information click: <https://sdg.bsu.edu.az>
7. The “University Policies” page of Baku State University’s SDG platform presents a comprehensive set of institutional policies that support sustainability, equality, and responsible governance within the university.



These policies cover areas such as climate action, diversity and inclusion, ethical conduct, sustainable procurement, and academic freedom, aligning the university's operations with the principles of sustainable development.

For more information click: <https://sdg.bsu.edu.az/university-policies>

8. The "SDG Reports" section of Baku State University's Sustainable Development Goals platform provides annual and thematic reports that reflect the university's progress in implementing the UN Sustainable Development Goals. These reports cover key areas such as education, research, environmental sustainability, and social responsibility, demonstrating BSU's contribution to sustainable development at both national and international levels.

For more information click: <https://sdg.bsu.edu.az/sdg-reports>

9. The "All News" section of Baku State University's Sustainable Development Goals (SDG) platform provides up-to-date information on the university's events, projects, trainings, conferences, and achievements related to sustainable development. It highlights BSU's ongoing activities and contributions in education, research, environmental protection, and social initiatives aligned with the UN Sustainable Development Goals.

For more information click: <https://sdg.bsu.edu.az/allnews>

10. The "Governance" section of Baku State University's SDG platform presents the university's management structure, decision-making bodies, and institutional mechanisms that ensure transparency, accountability, and participation in university administration. It highlights BSU's commitment to inclusive governance by involving academic staff, students, and administrative units in strategic planning and policy development in line with sustainable development principles.

For more information click: <https://sdg.bsu.edu.az/governance>

11. The "Research" section of Baku State University's SDG platform presents the university's scientific activities and contributions aligned with the United Nations Sustainable Development Goals. It highlights interdisciplinary research across various fields aimed at addressing global challenges such as environmental protection, sustainable development, and innovation.

For more information click: <https://sdg.bsu.edu.az/research>

12. The "Ethical Sourcing, Waste Management, and Sustainable Use" page of Baku State University outlines the university's policies and initiatives aimed at promoting responsible procurement, sustainable resource use, and effective waste management. It emphasizes BSU's commitment to environmental protection, ethical consumption, and alignment with sustainable development principles in all university operations.

For more information click: <https://sdg.bsu.edu.az/ethical-sourcing,-waste-management>

13. The "Clean Water Policy" page of Baku State University outlines the university's commitment to sustainable water management, including the protection, efficient use, and conservation of water resources across the campus. It also emphasizes wastewater treatment, pollution prevention, and the promotion of water-saving practices in line with environmental sustainability goals.

For more information click: <https://sdg.bsu.edu.az/clean-water-policy>

14. The "Report on SDG 6: Clean Water and Sanitation" of Baku State University presents the university's efforts to ensure sustainable water use, effective wastewater management, and water conservation on campus. It highlights monitoring of water consumption, reuse of treated wastewater for irrigation, and initiatives aimed at improving water efficiency and promoting awareness of sustainable water practices.

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

15. The "Report on SDG 15: Life on Land" page of Baku State University presents the university's activities and initiatives aimed at protecting terrestrial ecosystems, biodiversity, and sustainable land use. It highlights



BSU's contributions to conservation, environmental education, and research focused on preventing land degradation and promoting ecosystem restoration in line with global sustainability goals.

For more information click: <https://sdg.bsu.edu.az/report-on-sdg-15-life-on-land>

16. The "Report on SDG 17: Partnership for the Goals" of Baku State University presents the university's activities in strengthening national and international cooperation, research collaboration, and innovation partnerships in line with sustainable development objectives. It highlights BSU's role in promoting knowledge exchange, scientific cooperation, and multi-stakeholder engagement to support the achievement of the Sustainable Development Goals.

For more information click: <https://sdg.bsu.edu.az/report-on-sdg-17-partnership-for-the-goals>

17. The news reports on a scientific seminar held at Baku State University discussing the impact of global warming on natural water resources and related environmental challenges. It highlights how climate change, water scarcity, and pollution affect ecosystems and emphasizes the importance of sustainable water resource management and environmental awareness.

For more information click: <https://sdg.bsu.edu.az/news/bsu-discusses-the-impact-of-global-warming-on-natural-water-resources>

18. The "Research on SDG 14: Life Below Water" page of Baku State University presents the university's scientific activities focused on the protection and sustainable use of aquatic ecosystems, particularly the Caspian Sea. It highlights interdisciplinary research addressing marine pollution, biodiversity conservation, and the environmental impacts of human activities on water resources.

For more information click: <https://sdg.bsu.edu.az/research-on-sdg-14>

19. The news article presents Baku State University's "Aquatic Ecosystems Sustainability Policy," which outlines the university's commitment to protecting and sustainably managing aquatic ecosystems through research, education, and practical environmental actions. It highlights initiatives such as reducing pollution, promoting sustainable resource use, improving water quality monitoring, and supporting biodiversity conservation in line with sustainable development principles.

For more information click: <https://sdg.bsu.edu.az/news/baku-state-university-aquatic-ecosystems-sustainability-policy>

20. The news reports on the workshop of the project "Application of Artificial Intelligence in Precision Agriculture," organized by the Agricultural Innovation Center at Baku State University. It highlights the promotion of AI-based solutions in agriculture aimed at improving productivity, resource efficiency, and sustainable farming practices.

For more information click: <https://sdg.bsu.edu.az/news/the-first-workshop-of-the-project-titled-application-of-artificial-intelligence-in-precision-agriculture-organized-by-the-agricultural-innovation-center-at-bsu-has-been-held>

21. The news reports on a young scientist from Baku State University who continued her research, initially started at BSU, at Italy's National Institute of Nuclear Physics, demonstrating the international development of her scientific work. It highlights the importance of academic mobility, international collaboration, and the contribution of young Azerbaijani researchers to global scientific projects in the field of physics and nanotechnology.

For more information click: <https://sdg.bsu.edu.az/news/young-scientist-i-continued-the-research-i-started-at-bsu-at-italys-national-institute-of-nuclear-physics-interview>

22. The "Report on SDG 12: Responsible Consumption and Production" of Baku State University presents the university's initiatives aimed at promoting sustainable resource use, waste reduction, and environmentally responsible practices on campus. It highlights BSU's efforts in sustainable procurement, recycling,



minimizing single-use materials, and integrating sustainability principles into education and institutional activities.

For more information click: <https://sdg.bsu.edu.az/research-on-sdg-12>

23. The “Research on SDG 11: Sustainable Cities and Communities” page of Baku State University presents the university’s academic and practical contributions to the development of inclusive, safe, resilient, and sustainable urban environments. It highlights BSU’s research activities focused on urban sustainability, cultural development, infrastructure improvement, and community well-being in alignment with global sustainable development goals.

For more information click: <https://sdg.bsu.edu.az/research-on-sdg-11>

24. The news reports on Baku State University’s participation in the “Sustainability Exhibition: Art and Innovation for the Planet,” where the university presented innovative student projects focused on environmental protection and sustainable development. It highlights BSU’s contribution to promoting green technologies, creative solutions, and climate awareness through interdisciplinary scientific and artistic initiatives.

For more information click: <https://sdg.bsu.edu.az/news/bsu-participates-in-sustainability-exhibition-art-and-innovation-for-the-planet>

25. The news reports on Baku State University’s participation in the “Sustainability Exhibition: Art and Innovation for the Planet,” where the university presented innovative projects focused on environmental sustainability and green technologies. It highlights BSU’s contribution to promoting ecological awareness, climate action, and innovative solutions for sustainable development through interdisciplinary approaches.

For more information click: <https://sdg.bsu.edu.az/news/bsu-participates-in-sustainability-exhibition-art-and-innovation-for-the-planet>

26. The “Research on SDG 9: Industry, Innovation and Infrastructure” page of Baku State University presents the university’s scientific activities aimed at promoting sustainable industrial development, innovation, and resilient infrastructure. It highlights BSU’s contributions through research in engineering, technology, and digital transformation that support economic growth and sustainable development.

For more information click: <https://sdg.bsu.edu.az/research-on-sdg-9>

27. This document refers to the approval of the “State Strategy for the Management of Hazardous Waste in the Republic of Azerbaijan,” which establishes the main directions for the safe collection, transportation, treatment, and disposal of hazardous waste. It defines strategic priorities for environmental protection, risk reduction, and the development of an effective waste management system in accordance with national and international standards.

For more information click: [117 - "Azərbaycan Respublikasında təhlükəli tullantıların idarə olunmasının Dövlət Strategiyası"nın təsdiq edilməsi haqqında](#)

28. The Law of the Republic of Azerbaijan No. 514-IQ “On Waste” establishes the legal, economic, and organizational framework for waste management in the country. It regulates the collection, transportation, treatment, recycling, and disposal of waste, while also defining the responsibilities of state authorities, enterprises, and individuals in ensuring environmental protection and sustainable development.

For more information click: [514-IQ - Tullantılar haqqında](#)

IMAGES





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