

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)

[3.18] Impact of Waste Management programs in supporting the Sustainable Development Goals (SDGs)



Example

SDG	Contribution of Waste Management Program	Impact Level
SDG 1 – No Poverty	Creates opportunities for resource efficiency, recycling activities, and supports local circular economy initiatives.	Medium
SDG 2 – Zero Hunger	Organic waste composting supports sustainable landscaping and reduces food waste generation.	Medium
SDG 3 – Good Health and Well-being	Safe management of municipal, laboratory, and hazardous waste reduces health risks and environmental pollution.	High
SDG 4 – Quality Education	Environmental sustainability, waste segregation, recycling, and responsible consumption are integrated into education, research, and awareness programs.	High
SDG 5 – Gender Equality	Equal participation of students and staff in sustainability initiatives and environmental volunteer activities.	Medium
SDG 6 – Clean Water and Sanitation	Proper wastewater management, hazardous liquid waste control, and pollution prevention protect water resources.	High
SDG 7 – Affordable and Clean Energy	Recycling and resource recovery reduce overall energy demand associated with raw material production.	Medium
SDG 8 – Decent Work and Economic Growth	Green campus initiatives create opportunities for sustainable employment, innovation, and environmental management.	Medium
SDG 9 – Industry, Innovation and Infrastructure	Promotes sustainable infrastructure, digitalization, smart waste management, and environmental technologies.	High



SDG 10 – Reduced Inequalities	Environmental education and sustainability programs are accessible to all members of the university community.	Medium
SDG 11 – Sustainable Cities and Communities	Reduces campus pollution, improves environmental quality, and supports sustainable urban development.	High
SDG 12 – Responsible Consumption and Production	Implements comprehensive 3R programs, waste segregation, recycling, paper reduction, plastic reduction, green procurement, and circular economy practices.	Very High
SDG 13 – Climate Action	Reduces greenhouse gas emissions through waste reduction, recycling, composting, and efficient resource management.	Very High
SDG 14 – Life Below Water	Prevents plastic leakage, hazardous waste contamination, and wastewater pollution affecting aquatic ecosystems.	High
SDG 15 – Life on Land	Protects soil, biodiversity, and terrestrial ecosystems through environmentally sound waste disposal and pollution prevention.	High
SDG 16 – Peace, Justice and Strong Institutions	Supports transparent environmental governance, regulatory compliance, institutional accountability, and sustainability reporting.	High
SDG 17 – Partnerships for the Goals	Collaborates with governmental agencies, municipalities, recycling companies, environmental organizations, and international sustainability networks.	High

Description:

Baku State University (BSU) has established a comprehensive and integrated waste management system that significantly contributes to the achievement of the United Nations Sustainable Development Goals (SDGs). Through the implementation of the 3R (Reduce, Reuse, Recycle) strategy, hazardous waste management, paperless administration, plastic reduction initiatives, wastewater management, environmental education, green procurement, circular economy practices, and continuous monitoring, the university minimizes environmental impacts while promoting responsible resource use and sustainable campus operations.

Waste management is incorporated into the university's sustainability governance framework and supports environmental protection, public health, climate action, biodiversity conservation, resource efficiency, sustainable consumption, and community engagement. As a result, BSU's waste management initiatives demonstrate a very high impact, directly or indirectly contributing to 16 of the 17 Sustainable Development Goals.

Baku State University's waste management programs have a strong and measurable impact on advancing the Sustainable Development Goals (SDGs) through the promotion of environmentally responsible practices, sustainable campus operations, and community awareness initiatives. The university implements comprehensive waste management measures that include solid waste collection, waste segregation, recycling activities, safe handling of hazardous and laboratory waste, and cooperation with authorized waste treatment and disposal institutions. These practices contribute to reducing environmental pollution, protecting natural resources, and improving public health and safety within the university environment.

At the core of BSU's system is a campus-wide waste segregation program, where waste is separated at the source into organic, inorganic, hazardous, recyclable, and e-waste categories. This approach supports efficient waste handling and significantly reduces environmental pollution. In parallel, the university applies a 3R strategy (Reduce, Reuse, Recycle), which promotes responsible consumption and minimizes overall waste generation across campus activities.

To ensure sustainable organic waste utilization, BSU operates composting facilities that convert organic waste into natural fertilizer. This compost is used in campus landscaping and urban gardening projects, reducing dependence on chemical fertilizers and supporting sustainable land use practices. Additionally, recycling stations have been established in cooperation with licensed waste vendors, enabling the proper processing of paper, plastics, glass, metals, and electronic waste in accordance with environmental standards.



The university also actively organizes e-waste collection drives and disposal campaigns, ensuring that electronic waste is managed safely and in compliance with environmental regulations. These initiatives help reduce toxic waste accumulation and promote circular economy practices. Furthermore, BSU has introduced campus-wide zero-waste campaigns that encourage behavioral change among students and staff through awareness events, signage, and student-led sustainability initiatives.

To reduce environmental impact at the source, the university has implemented restrictions on single-use plastics in canteens, vending areas, and university events, replacing them with reusable and eco-friendly alternatives. In addition, the digitalization of administrative processes has significantly reduced paper consumption, contributing to more efficient and environmentally responsible operations.

Education and research also play a key role in BSU's sustainability approach. Waste management topics are integrated into academic curricula, research projects, and student theses, covering areas such as lifecycle analysis, waste-to-energy technologies, and sustainable packaging solutions. The university is also exploring the use of smart waste monitoring systems and intelligent bins to improve data collection and optimize waste management logistics. BSU further strengthens its impact through collaboration with local governments, NGOs, and private sector partners, supporting regional waste governance and promoting innovation in circular economy practices. These partnerships extend the university's influence beyond campus boundaries and contribute to broader environmental sustainability goals.

Collectively, these initiatives demonstrate BSU's strong contribution to multiple SDGs, particularly:

- SDG 3 (Good Health and Well-being) through safe waste handling and reduced health risks
- SDG 4 (Quality Education) by integrating sustainability into teaching and research
- SDG 6 (Clean Water and Sanitation) through pollution prevention
- SDG 9 (Industry, Innovation and Infrastructure) via waste management innovation
- SDG 11 (Sustainable Cities and Communities) through sustainable campus development
- SDG 12 (Responsible Consumption and Production) by promoting 3R principles
- SDG 13 (Climate Action) by reducing emissions from waste activities
- SDG 14 (Life Below Water) by preventing pollution leakage into water systems
- SDG 15 (Life on Land) by protecting ecosystems through proper waste management
- SDG 17 (Partnerships for the Goals) through multi-sector collaboration

Baku State University's waste management strategy reflects a holistic and forward-looking approach to sustainability, combining infrastructure, education, innovation, and partnerships to support both national and global environmental objectives.

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

1. The SDG 12 (Responsible Consumption and Production) Report at Baku State University outlines the university's efforts to promote sustainable resource use, waste reduction, and responsible procurement across campus. It highlights key initiatives, progress indicators, and alignment with the United Nations Sustainable Development Goals (SDGs).
For more information click: <https://sdg.bsu.edu.az/report-on-sdg-12>
2. A scientific seminar was held at the Faculty of Ecology and Soil Science of Baku State University on the ecological assessment of humidity changes using the MNDWI index and satellite-based GIS technologies in the Lachin, Gubadli, and Zangilan districts. The study analyzed long-term hydrological and vegetation dynamics (2000–2021), revealing significant ecological transformations and providing a scientific basis for environmental monitoring and sustainable land management in the post-conflict territories.
For more information click: <https://sdg.bsu.edu.az/news/scientific-seminar-held>
3. The Excellence Center for Research, Sustainability, and Innovations (ECRSI) at Baku State University serves as an interdisciplinary research hub dedicated to advancing environmental sustainability, innovation, and the United Nations Sustainable Development Goals (SDGs). Established in 2023, the center supports research,



education, and international collaboration across key areas such as climate action, renewable energy, sustainable development, and environmental protection, while integrating sustainability into teaching, research supervision, and academic programs across the university's faculties.

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

4. The SDG portal of Baku State University serves as an official platform showcasing the university's initiatives, research, and reports aligned with the United Nations Sustainable Development Goals (SDGs). It provides information on BSU's sustainability activities, projects, and contributions to education, research, and environmental responsibility.

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

5. The Climate Action Plan of Baku State University outlines the university's commitment to achieving carbon neutrality by 2030 through systematic reduction of greenhouse gas emissions and improved energy efficiency. The plan focuses on sustainable infrastructure upgrades, renewable energy integration, waste reduction, and alignment with the United Nations Sustainable Development Goal 13 (Climate Action), supported by monitoring, reporting, and international collaboration initiatives.

For more information click: <https://sdg.bsu.edu.az/climate-action-plan-action>

6. Baku State University actively addresses climate change through greenhouse gas emission reduction strategies, integration of climate education across disciplines, and participation in international research collaborations. The university contributes to the United Nations Sustainable Development Goals by advancing climate science education, strengthening research on climate adaptation and disaster risk reduction, and fostering innovation through regional and global partnerships.

For more information click: <https://sdg.bsu.edu.az/report-on-sdg-13-climate-action>

7. Baku State University supports the implementation of United Nations Sustainable Development Goal 15 (Life on Land) through education, research, and community engagement focused on biodiversity conservation and sustainable land use. The university promotes ecosystem protection, sustainable resource management, and awareness initiatives while contributing to the conservation of forests, mountains, and endangered species in line with global environmental sustainability principles.

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

8. The national development frameworks "Azerbaijan 2030: National Priorities for Socio-Economic Development" and the 2022–2026 Socio-economic Development Strategy emphasize the formation of research universities and the development of competitive human capital through innovation. In this context, Baku State University has established a Center of Excellence for Research, Development, and Innovations equipped with advanced laboratories to support interdisciplinary research, industry collaboration, and the commercialization of scientific outcomes.

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

9. This report covers the activities carried out by Baku State University within the framework of SDG 3 – "Good Health and Well-being." The report provides detailed information on the measures implemented to create a healthy and safe environment at the university, organize medical and psychological support services, and promote a healthy lifestyle.

For more information click: <https://sdg.bsu.edu.az/report-on-sdg-3-good-health-and-well-being>

10. This report presents the activities carried out by Baku State University within the framework of SDG 4 – "Quality Education." The report includes detailed information on the university's initiatives aimed at improving the quality of education, promoting inclusive and accessible learning opportunities, and supporting academic and scientific development.

For more information click: <https://sdg.bsu.edu.az/report-on-sdg-4-quality-education>

11. This report presents the activities carried out by Baku State University within the framework of SDG 6- “Clean Water and Sanitation.” The report provides detailed information on the university’s initiatives related to sustainable water management, sanitation infrastructure, wastewater management, and the promotion of efficient water use practices.
For more information click: <https://sdg.bsu.edu.az/report-on-sdg-6-clean-water-and-sanitation>
12. This report presents the activities carried out by Baku State University within the framework of SDG 9 -“Industry, Innovation and Infrastructure.” The report provides detailed information on the university’s initiatives related to scientific research, technological innovation, sustainable infrastructure development, industry collaboration, and the promotion of innovation-driven education and research activities.
For more information click: <https://sdg.bsu.edu.az/report-on-sdg-9-industry-innovation>
13. This report presents the activities carried out by Baku State University within the framework of SDG 11 – “Sustainable Cities and Communities.” The report provides detailed information on the university’s initiatives related to sustainable campus development, environmental protection, resource efficiency, waste management, and the promotion of sustainable urban practices and community engagement.
For more information click: <https://sdg.bsu.edu.az/report-on-sdg-11-sustainable-cities>
14. This report presents the activities carried out by Baku State University within the framework of SDG 14 – “Life Below Water.” The report provides detailed information on the university’s initiatives related to the protection of aquatic ecosystems, sustainable use of water resources, marine and freshwater research activities, and environmental awareness programs aimed at preserving water biodiversity.
For more information click: <https://sdg.bsu.edu.az/report-on-sdg-14-life-below-water>

IMAGES





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BAKU DÖVLƏT UNIVERSİTETİ "BDU könüllüləri" təşkilatı

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Plastik kartların toplanması üçün hazırlanmış qutuların məkanları:

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3 saylı tədris binası, "BDU könüllüləri" otağı	3 saylı tədris binası, 1-ci mərtəbə, giriş

"UNUDULAN KARTLAR UNUDULMAZ SƏNƏT ƏSƏRLƏRİ YARADA BİLƏRİ"





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