

SUSTAINABILITY 2030

SAMARKAND STATE UNIVERSITY

NAMED AFTER SHAROF
RASHIDOV



SAMARKAND, REPUBLIC OF UZBEKISTAN

“

The Earth is a **finite environment**, with its physical systems tightly interconnected with all life on the planet.

Humanity is now in the historic position of changing the global balance of both the physical and biological environments, with unintended consequences.

Sustainability requires “meeting the needs of the present without compromising the ability of future generations to meet their own needs”.

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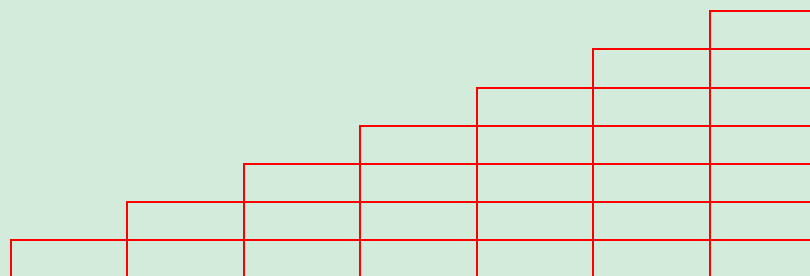
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ACKNOWLEDGEMENT

Established in the fourteenth century as Mirzo Ulugbek Madrasah, Samarkand State University, named after Sharof Rashidov, gradually developed into a blooming institution of higher learning.

We sincerely thank our ancestors for founding a university to aid in society's growth and the creation of a rich culture, environment, and economy.

It is clear that Samarkand City served as an important hub for trade and cultural exchange for many years. It's often referred to as a complex of civilizations. We are also grateful for the establishment of a university (Samarkand State University) in such a stunning and culturally significant city in Central Asia.

We sincerely appreciate the contributions made to the growth of the Samarkand State University by the Rector, Vice-Rectors, Professors, Teachers, Staff, and other stakeholders.

Finally, we thank all of the supporters, students, practitioners, and others—known and unknown—who have helped Samarkand State University succeed.



Message from the Rector

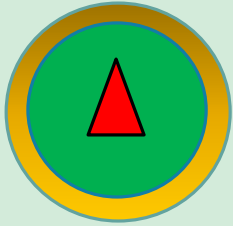


Professor R.I. Kholmuradov

Samarkand State University has had access to a wealth of knowledge and research for many years, which enables us to take the lead in the fight against global warming. Under our prior efforts for sustainability, our researchers, academics, and students continuously made notable progress and picked up numerous valuable lessons. The Sustainability Plan 2030 displays our dedication to environmental protection and resource efficiency. The most important aspect of the plan is to set up a highly collaborative method of creating, disseminating, and using useful information for a sustainable future. The deliberate integration of the University's education, engagement, operations, and research objectives is a strategic priority that reflects this. The Plan to 2030 does not provide a comprehensive set of steps for accomplishing our goals and aspirations, in contrast to its predecessor. This most recent plan's form encourages clear and exacting reporting while enabling better adaptability to fresh concepts, initiatives, and innovation over the course of its implementation. The strategy aims to deepen and broaden the body of knowledge needed to address the social, economic, and environmental difficulties of climate change and global sustainability. It also champions the adoption and implementation of doable sustainability solutions on our campuses and throughout society. We will continue to spearhead

multidisciplinary collaboration and partnerships that address the far-reaching effects of climate change inside and outside the academy to empower our community and set an example for industry-level standards that the larger higher education sector can imitate. I affirm to lead the University in taking the essential steps toward a future with a healthy, safe, and equitable climate by presenting the Sustainability Plan 2030.





Introduction

The various policies and practices of Samarkand State University make it clear that the institution is earnest in its attempts to fight severe climatic changes, such as global warming. For problems like global warming, knowledge and workable solutions that consider the social, environmental, and economic facets of sustainability are needed. As a public-oriented, globally connected research and teaching university, Samarkand State University sincerely acknowledges its responsibilities to the growth of sustainability knowledge and practice among all spheres of life. The institution set an example through its campus operations and care of the campus landscapes in order to adopt sustainability. The sustainability plan 2030 outlines a timeline for fulfilling the obligations outlined in our sustainability charter, which has been adjusted to reflect the objectives of the Uzbek Republic. The plan is centered on our goals of becoming global leaders for a sustainable future and our dedication to our partners, associates, and global community. This strategy outlines the positive effects and public benefits based on knowledge, lessons learned from

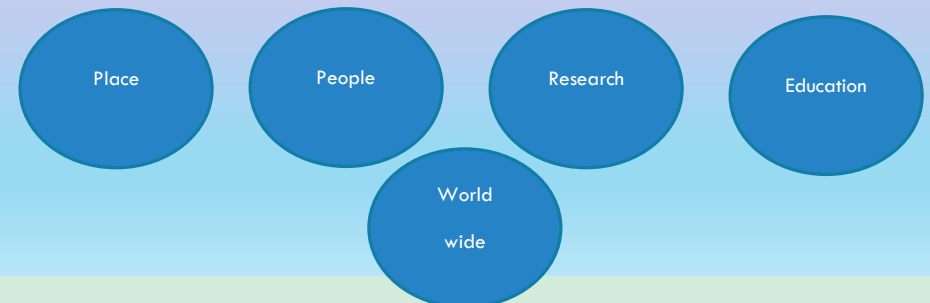
prior efforts, and expert opinions, the university seeks to generate:

- Through the dynamism of the communities,



networks, and physical, social, economic, and human systems that our campuses support and are a part of

- Accelerating the University's and society's transition to sustainability through cooperation with our partners and communities, both locally and worldwide.



Introduction

“Sustainability” means:

Numerous definitions of sustainability exist, and they are contested on both a theoretical and practical level. Researchers and academics at Samarkand State University are constantly examining the true meaning of sustainability and its uses at various scales and in various settings.

The Samarkand State University’s Sustainability Plan 2030 takes a pluralist approach to definitions of sustainability, acknowledging that various, and diverse skills, knowledge and viewpoints are necessary to effectively engage with the complexity of and contentious nature of the term. The university is committed to penetrate the importance of sustainability plan 2030, communication of its outputs in ways that are globally recognized to the whole institution. We opt two ways for doing so.

1. The University’s charter focuses on the interdisciplinary dimensions of sustainability’s three pillars, noting that global values and actions must be ecologically sound, socially just and economically viable, with success in one area, not coming at the cost of others. The charter is dedicated to the strategic motives of creating a best

sustainable institution, has fabricated the aspirations and targets.

2. Despite only offering one perspective on sustainability globally and being open to criticism, the United Nations Sustainable Development Goals (UN SDGs) offer a globally acknowledged vocabulary and structure for organizing action and gauging progress through 2030.

The Samarkand State University has long understood the value of sustainability and began its journey by implementing measures in line with the Sustainable Development Goals of the United Nations. We prepare, publish, and promote our reports on our sustainable efforts annually which affirms our intention towards sustainability.



that will maximize partners to
their contributions. advance this cause.

Introduction

Sustainability Plan 2030

CORE AREAS OF ACTION

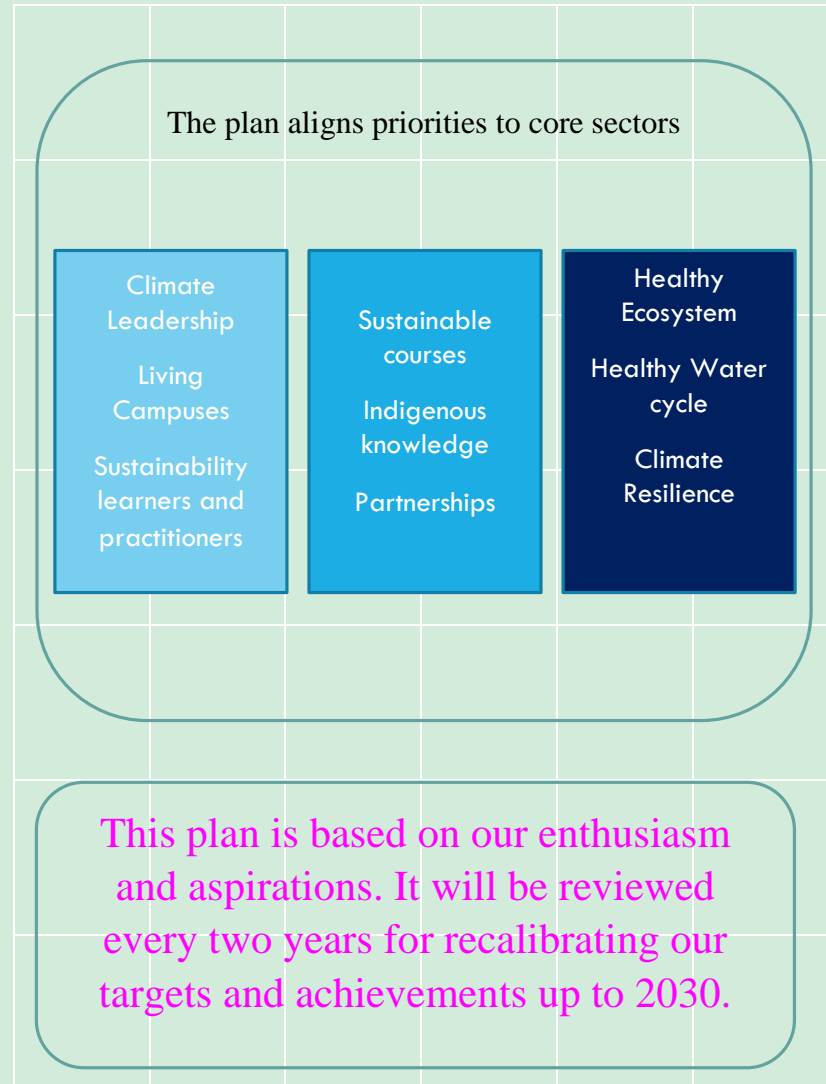
The three sectors of the plan outline our tactical strategy for hastening society's transition to sustainability.

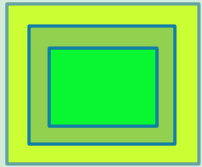


Utilizing institutional synergies and incorporating innovation and learning into our daily operations will help us combine the Plan's knowledge mobilization and operational domains in ways

We must encourage our faculty and students to develop profound disciplinary and multidisciplinary perspectives on sustainability and work with communities, governments, businesses, and other institutional

We must operate and build our institution in a way that minimizes harm to and promotes the health of the ecosystems and networks they are a part of in order to serve as an example of the dedication.





Action through People and Campuses

By purposefully collaborating with and cross-pollinating with the other two sectors—knowledge dissemination and proactive operations—this sector increases its influence. Few key areas are included in it:

- Climate Leadership
- Living Campus
- Society of sustainability learners and practitioners



Climate Leadership



Living Campus

Climate Leadership

The University has inspired others to take aggressive climate action by demonstrating its operations.

The goals of Samarkand State University are revised in



accordance with our desire to achieve carbon neutrality. The

institution strives to be a worldwide climate leader by setting and meeting carbon reduction goals with rigour and ambition, as well as by taking steps to encourage others to follow suit. Our plan follows international benchmarking which indicates institutional and corporate carbon targets, typically account for scope 1 and scope 2 emissions with variable considerations of scope 3 emissions. We address our own carbon footprint with the optimum degree of commitment, required in this critical decade for climate action. By adopting more environmentally friendly policies when making purchases of goods and services, we are also urging our partners to reduce carbon emissions.

Scope 1 emissions are direct greenhouse gas emissions that occur from sources owned or controlled by the organization, for example, natural gas consumption. Scope 2 emissions are greenhouse gas emissions generated from purchased energy consumed by the organization, for example, electricity. Scope 3 emissions are indirect greenhouse gas emissions and are the consequence of an organization's activities but emitted outside the organization's direct control, for example, purchased goods and services, and business travel.

Electricity and natural gas is the major source of emissions at over 70 percent of total carbon emission at the university. We are continuously running towards net zero emission by implementing our actions i.e., renewable energy sources. University has implemented a plan to reduce non-renewable energy sources by installing a capacity of solar energy by 7000 kwh in 2021. Since then, its running in mission mode. In 2022, it was 64000 kwh, expanding at a very fast rate for becoming a carbon-neutral university.

Living Campuses

Real-world opportunities to develop, test, and apply sustainability skills and solutions are made possible by the University's campuses and operations.



We will use a 'living laboratories' approach to co-create solutions and experiential learning opportunities that engage with the social, environmental, and economic dimensions of sustainability in order to concentrate this effort and accelerate innovation and facilitate learning through practice.



By identifying and creating a number of living labs to support innovation and applied learning for sustainability, the Sustainability Plan 2030 expands upon this framework. To aid in the development of communities of practise, these platforms will be promoted to academics, students, and potential sustainable partners.

It is supposed to be understood that living labs cover the entire scope of this plan. Therefore, our future labs could form around:

- Biodiversity
- Sustainable procurement and services
- Sustainable building design
- Sustainable campus
- Green Campus Initiatives

Target (2025)	Indicator of Performance
University has targeted to create state of art laboratories for creating a living scenario	Formation of labs, evidence of structural changes, and demonstration of case studies.

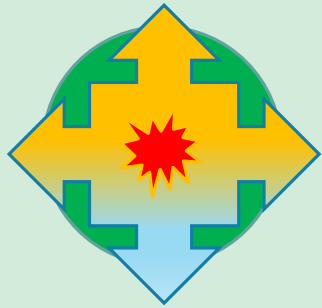
Society of Sustainability Learners and Practitioners

The University is a flourishing community where knowledge about sustainability is shared, created together, and put into practice.



Target (2025)	Performance Indicator
The Academic Divisions and Portfolios of the University collaborate and support one another to include	<ul style="list-style-type: none"> • Sustainability-oriented academic staff. • Peer learning and sustainability groups

sustainability in teaching and practice	
Incorporation of positive sustainability skills, knowledge and behaviors through non-formal and informal learning.	<ul style="list-style-type: none"> • Increased awareness of and participation in sustainability-focused and sustainability-inclusive activities. • Organized activities. • Use of sustainable modes of transport. • Community gardens.
Incorporation and integration of sustainability courses.	<ul style="list-style-type: none"> • Formal and informal training about sustainable practices. • Modern and innovative sustainability courses.
Offer student-centered applied sustainability learning opportunities	<ul style="list-style-type: none"> • Interdisciplinary learning • Internships • Sustainability exchange programs
Encourage participation and contribution of academic and professional staff to formal and non-formal sustainability learning and teaching.	<ul style="list-style-type: none"> • Sustainability training • Engaging teachers in sustainability activities.
Engaging alumni for better outputs and policies	<ul style="list-style-type: none"> • Established alumni association for engaging them with our staff and students.



Mobilizing knowledge for Action

The university is advancing its cooperation and collaborations across the world with leading universities and other significant organizations for producing, sharing, and implementing practical sustainability knowledge. This sector includes priority areas:

- Sustainability courses
- Discovery
- Indigenous knowledge
- Partnerships and engagement

Sustainability Courses

Target (2025)	Performance Indicator
Introducing sustainability courses in different disciplines based on the sustainability requirement in a particular discipline.	<ul style="list-style-type: none"> • Introducing sustainability-focused teaching staff. • Outlining sustainability potential, impacts and responsibilities. • Enhance the proportion of sustainability courses.
Graduates lead the industry and community for sustainability.	<ul style="list-style-type: none"> • Increasing number of graduates, having sustainability courses.

Discovery

Target (2025)	Performance Indicator
Highest quality sustainability research as per international standards for exemplifying our efforts.	<ul style="list-style-type: none"> • Encourages researchers and provides incentives for conducting unsurpassed quality research.
Establishments of institutional research and development hub.	<ul style="list-style-type: none"> • Established modern and well-equipped laboratories. • Established interdisciplinary laboratories

Impact assessment and policy modifications	<ul style="list-style-type: none"> Analyze the impact of activities for improved decisions.
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Indigenous knowledge

We accept and respect indigenous knowledge and practices in our sustainability program.

Target (2025)	Performance Indicator
The University has an increased understanding of sustainability from an Indigenous perspective through co-created or Indigenous-led reciprocal learning.	Case studies demonstrating the two-way learning and increased understanding of topics and methods to be developed as part of co-creation or Indigenous-led activity

The University of Melbourne recognizes the importance of furthering our relationship with the Traditional Owners of the land on which our campuses stand, as well as assisting in the recognition, curation and activation of Indigenous knowledge.

Partnerships and engagement

Our partners, collaborators, and connected stakeholders have boosted their sustainability performance through meaningful engagement and relationships with the University.

Target (2025)	Performance Indicator
Localized and co-created partnerships.	University recognizes and works with the local community by creating a partnership in the form of mutual actions for sustainability. <ol style="list-style-type: none"> Sustainable Samarkand Different Mahallas Nearby industries
Samarkand State University has recognized its importance and is committed to playing a significant role in Central Asia as well as the world in addressing sustainability challenges and creating opportunities for challenged people.	<ul style="list-style-type: none"> Sustainability-focused partnerships with overseas universities. Sustainability-focused joint research with eminent researchers across the world.

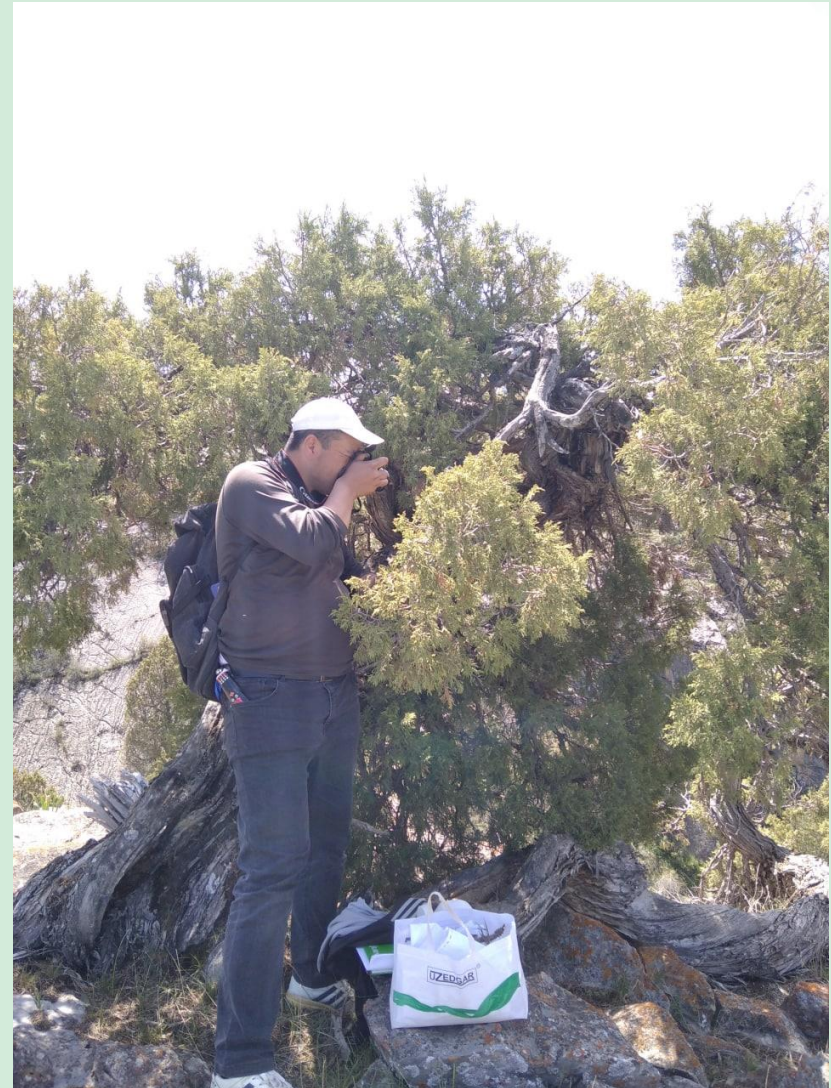
According to Sustainable Samarkand, collaboration, partnership, convening, and leadership are essential for the university to realize its mission of advancing society. Partnerships offer access to more tools, expertise, and information as well as the chance to make a bigger difference.

Proactive operations

The Samarkand State University's desire to become a genuinely sustainable community exemplar is reflected in this sector, which supports and improves the ecosystems, networks, and communities that our campuses are a part of on a local to global scale.

It includes the following priority areas:

- Climate resilience
- Healthy ecosystem
- Healthy water cycle



Climate resilience

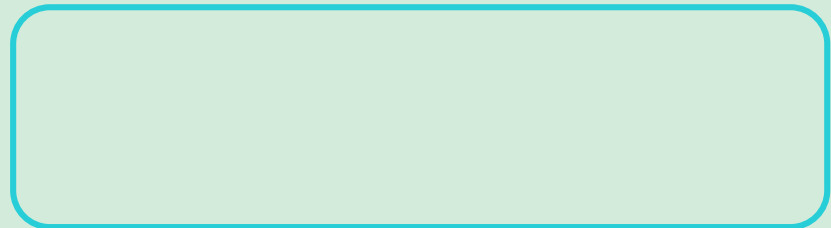
The University community and the larger communities to which we belong can become more robust to the effects of climate change thanks to our campuses and operations.



Target (2025)	Performance Indicator
High-level climate change preparedness and assessment.	<ul style="list-style-type: none">• Researchers of Samarkand State University collect, analyze and observe climate data, provided by the city authorities, especially air quality, and temperature data.• University has established the analytical capacity for better preparing against climate change.

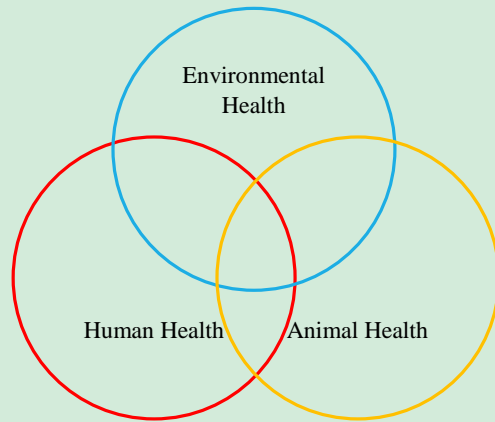
In addition to serving its stakeholders, Samarkand State University is required by law to manage risk. The health and well-being of the campus and its surroundings may be negatively impacted by weather and related occurrences such as storms, heavy snowfall, little rain, and hot temperatures.

University’s researchers and professionals are developing a strategy to reduce the risk and exposure of assets and infrastructure to climate risk.



Healthy ecosystems

The university's campuses support a variety of species through healthy on-campus ecosystems and links to off-campus habitats.



Targets	Performance Indicator
Each Campus of SamSU is committed to achieve no net biodiversity loss by 2025.	An inventory of current biodiversity status is being prepared for estimating the real biodiversity within the campuses of Samarkand State University.

Biodiversity enhancement program 2030	Biodiversity enhancement program is initiated for increasing diversity at the university and its campuses.
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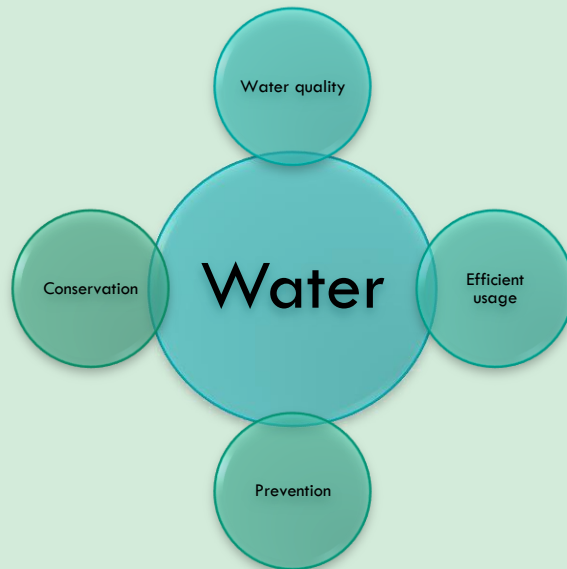
As per IUCN, Uzbekistan has lost many species in terms of wildlife. However, government, societies, and universities are considering it as a great threat to their ecosystem, especially in Central Asia. Therefore, Samarkand State University is committed to restore wildlife including flora and fauna in its original form for conserving lost species as well as conserving endangered species.

With the assistance of stakeholders, Samarkand State University is dedicated to transforming its campuses into a nature garden for species and restoring variety inside the institution. University is also committed to shape the landscape of surroundings, preserving natural resources by conducting high quality research in and around the Samarkand city, and creating awareness among people about healthy ecosystems.



Healthy water cycles

Samarkand State University uses water efficiently and contributes to a healthy water cycle.



Target (2025)	Performance Indicators
Optimization of water usage	<ul style="list-style-type: none"> • Estimating water utilization at the campuses from potable and non-potable sources. • Estimating consumption of water resources from campus sources, grey water treatment and others.
University has increased the proportion of water usage from non-potable sources.	<ul style="list-style-type: none"> • Estimating non-potable and potable water consumption ratio for better planning and efficiency.



Governance and Implementation

The sustainability framework of Samarkand State University establishes and directs the path for developing sustainability throughout all facets of university activities. Three components make up the Framework:

1. **Sustainability Pact:** explains the University's dedication to fostering a sustainable environment and our goal of becoming an example of a sustainable community.
2. **Sustainability Plan:** Roadmap for carrying out the agreement through results and goals that are in line with the institutional strategy of the university.
3. **Sustainability Report:** Annual evaluation of the university's sustainability efforts in relation to the sustainability plan that is made public.



Samarkand State University can implement its sustainability framework and plan, manage targets and reporting, and fortify ties with both internal and external stakeholders thanks to effective governance. It is essential to the accomplishment of this Sustainability Plan's implementation.

The development of sustainability governance and strategy is overseen by the sustainability strategy team. Implementation of the University's sustainability framework, including its Sustainability Plan, will be supervised by a Sustainability Advisory Group made up of executives, academic and professional employees from throughout the rectorate and Academic Divisions, and student representatives.

This sustainability plan specifies performance-based goals, success criteria, and who is in charge of implementation at the portfolio, academic division, and graduate school levels. Those who have been given responsibility for one or more targets will, as part of regular planning procedures, include the necessary actions in annual and multi-year workplans.

This Sustainability Plan is in line with the timeframe of the University's institutional strategy to facilitate accountability and useful action in the short- to medium-term. The Plan's objectives and, when applicable, some of its goals are similarly dated to 2030. Since more baselining or investigative work is needed to make sure these targets are meaningful, it has not been feasible to set definite targets for many of the Plan's targets out to 2030. As a result, a number of goals are established for 2025, and the Plan will be reviewed and updated in 2026. With this strategy, the University will be able to continue to be adaptable and responsive in the steps it takes to realise its broad ambitions for 2030.

Available: <https://www.samdu.uz/en>