



**SAMARKAND STATE UNIVERSITY NAMED AFTER SHAROF RASHIDOV  
(SAMDU)**

**SUSTAINABLE DEVELOPMENT GOAL 07  
(SDG 7)**



Assuring affordable and sustainable energy access is Goal 7's main objective, as it is essential to the growth of business, communications, agriculture, healthcare, education, and transportation. A variety of energy sources, including solar, wind, hydropower, geothermal, biofuels, natural gas, coal, petroleum, and uranium, are available from the environment. If greenhouse gas emissions are not reduced through increased usage of fossil fuels, there will be consequences for global climate change. Reducing the risk of disaster and mitigating climate change are facilitated by the usage of renewable energy sources and energy efficiency. Ecosystem preservation and upkeep enable the use of and advancement in hydropower sources for biofuel and electricity production.

Samarkand State University is dedicated to generating more clean and affordable energy by replacing fossil fuel energy. For this purpose, we designed our policy to motivate our energy requirements from non-renewable energy sources to renewable energy sources. In addition, we implemented the idea in 2021 by installing photovoltaic panels on the roofs of buildings to generate solar energy.

## Metrics

### **7.2.1 - Does your university as a body have a policy in place for ensuring all renovations / new builds are following energy efficiency standards? (relevant standards to be indicated)**

Samarkand State University named after Sharof Rashidov favors the implementation of energy efficiency standards to reduce energy usage. We believe that clean and green energy is the prerequisite to slow down climate change, especially carbon emissions into the atmosphere. We implement our policy of energy-efficient renovations and constructions through Shukurov Shavkat Shukurovich, Vice-rector of Construction and Renovations. Our renovation and construction policy provides them with legal, technical, and ethical standards for constructing and renovating buildings.

Our approach is to improve the energy performance of buildings, considered as utmost priority. It is an important task to control energy usage, air pollution, and carbon emissions. Our vision of reducing carbon emissions clearly reflects in our construction and renovation practices.



[https://www.samdu.uz/upload/content-files/Samdu\\_Sustainability%20Report%202022\\_final.pdf](https://www.samdu.uz/upload/content-files/Samdu_Sustainability%20Report%202022_final.pdf)

### **7.2.2 - Does your university as a body have plans to upgrade existing buildings to higher energy efficiency?**

Samarkand State University named after Sharof Rashidov is one the oldest university in Central Asia. So, our university has many old buildings, having international reputé in terms of heritage. Therefore, a renovation and upgrade plan was started a couple of years ago. Under this plan, all buildings were inspected, estimated, and identified for upgradation by installing and fixing modern electric gadgets, sanitary, modern, and modular kitchens (as per need), energy-efficient lighting, and other necessary requirements.

For example, all old buildings were installed with sensor-enabled lights to save energy when paths and rooms are idle (Nobody is there). Sensor-enabled water taps were also installed to save water at these buildings.



### **7.2.3 - Does your university as a body have a process for carbon management and reducing carbon dioxide emissions?**

Samarkand State University named after Sharof Rashidov is determined to implement its core principles of sustainability to reduce carbon emissions and also determined to become a carbon-neutral university. For this purpose, we are taking certain measures at university.

1. Planting more trees and vegetation within the campus.
2. Reducing energy demand continuously up to an optimum level.
3. Installing energy-efficient appliances and equipment in all buildings.

4. Sensor-based lighting for optimizing the need for light.
5. Implementing green building programs to turn them into energy-efficient ones.
6. Consistently creating awareness among the university community to prevent misuse or overuse.
7. Restricting vehicles up to a certain limit by installing electronic barriers.
8. Conducting research on carbon reduction technologies.
9. Integrating the importance of carbon emission and its reduction into our curriculum.
10. The university has a dedicated team that works on designing, making strategies, and implementation at all levels.

#### **7.2.4 - Does your university as a body have an energy efficiency plan in place to reduce overall energy consumption?**

In order to implement an energy efficiency plan, the Vice-Rector of construction and renovation and his team work for inspection, monitoring, planning, and implementing the university's core principles to achieve annual targets.

Our plan describes the strategies and standard operating procedures (SOPs) for acting on the issues pertaining to energy issues about their misuse or overuse. For this purpose, our team is working on developing efficient and effective standard operating procedures that can be utilized by the implementation team in an effective manner. These procedures are based on ethical, sustainable, and technically sound, and help in carbon management.

#### **7.2.5 - Does your university as a body undergo energy reviews to identify areas where energy wastage is highest?**

A team of excellent professors and experts works and assesses the energy utilization records at each building and department to identify the issues and problems. Further, this team provides a way forward to prevent wastage and improvising mechanisms for energy use.

#### **7.4.1 - Does your university as a body provide programmes for local community to learn about importance of energy efficiency and clean energy?**

Samarkand State University named after Sharof Rashidov atmospheres its responsibilities to the surrounding community. We believe that efficient use of energy is the responsibility of all people not only the university community to prevent misuse and overuse of energy in all spheres.



Therefore, our teaching staff teaches at Mahallas about varied topics of world and international importance including energy, food, and climate.

**7.4.2 - Does your university as a body promote a public pledge toward 100% renewable energy (petitions, meetings, discussions, events) beyond the university?**

Samarkand State University named after Sharof Rashidov promotes energy efficiency and also creates awareness among people about renewable energy. For this purpose, we pledge at all faculties and departments for minimum use of energy.

Pledge is as follows:

I solemnly pledge that I will use electricity responsibly in my classroom, staff room, workspaces, and home by opting following steps:

1. Turning off all lights and electronic gadgets, if no need to use them.
2. Installing more efficient compact fluorescent lights.
3. Turning off my computer before leaving my office.
4. Turning off all unnecessary lights during the day when sunlight is optimum.
5. Will use the washing machine and other equipment when needed most.

I also pledge that I will help in creating awareness about the importance of effective use of energy.

Further, the University promotes the importance of energy to all nearby people through our teaching staff. They go to many mahallas as per their appointment. At the Samarkand State University named Sharof Rashidov, we act professionally and consistently to achieve our targets.

**7.4.4 - Does your university as a body inform and support government in clean energy and energy-efficient technology policy development?**

Samarkand State University and its experts are closely associated with the local, regional, and national government for developing a clean energy and energy-efficient technology. Professor R.I. Kholmuradov, Rector of Samarkand State University participates in developmental activities and implementation of efficient energy technology at the government level. Further, the university extended the renewal energy capacities from 7000 Kwh to 20000 Kwh in one year.



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