



TERMEZ STATE UNIVERSITY

INFRASTRUCTURE SUSTAINABILITY AND RESOURCE EFFICIENCY POLICY



Termez 2025



OBJECTIVE

The design, construction, and maintenance of university buildings have long-term implications for sustainability, energy consumption, and operational efficiency. Recognizing that the average lifespan of a building exceeds fifty years, Termez State University (TerSU) is committed to ensuring that all new construction, renovations, and refurbishments adhere to high standards of energy efficiency and water conservation. The primary objective of this policy is to prevent the locking in of inefficient building performance, minimize environmental impact, and promote responsible resource use across the University's campus.

This policy aligns with Uzbekistan's national legislation, including the Law on Energy Efficiency, the Construction Norms and Standards (SNiP), the Law on Environmental Protection, and the Sustainable Development Goals as promoted by international frameworks. It ensures that TerSU's buildings are safe, environmentally sustainable, and optimized for operational cost savings over their lifespan, while also enhancing the well-being of students, staff, and visitors.

SCOPE

The policy applies to all TerSU facilities, including academic buildings, laboratories, administrative offices, student residences, and public spaces. It governs new construction, major renovations, and ongoing maintenance projects, ensuring that energy and water efficiency principles are integrated at every stage. It also extends to teaching and research infrastructure, ensuring that educational programs on sustainability and green building practices are reinforced through the University's physical environment.

All stakeholders, including architects, engineers, contractors, University administrators, and maintenance personnel, are required to comply with this policy. It also guides students and researchers engaged in sustainability initiatives, ensuring that learning outcomes are reinforced through real-world examples in campus buildings.

POLICY STATEMENT

Termez State University (TerSU) is committed to sustainable building design, operation, and maintenance, integrating energy and water efficiency principles to achieve long-term environmental and economic benefits. The University mandates the implementation of the following key measures:



The University establishes committees within the School of Engineering to review existing facilities, identify defects, and ensure that lessons learned are incorporated into the design of new buildings. Energy audits are conducted systematically across the campus to assess the performance of both existing and new buildings, allowing the identification of energy-saving measures that are cost-effective and environmentally sustainable.

TerSU collaborates with national and international stakeholders in energy and water security. The University actively seeks partnerships with governmental agencies, research institutions, and global networks to enhance knowledge transfer and attract external funding for student and faculty research in green building technologies.

TerSU supports research and education through fully equipped laboratories, projects, and undergraduate programs focusing on sustainable building practices. These initiatives aim to ensure that students acquire comprehensive knowledge of energy efficiency, water conservation, and sustainable architecture. Educational outreach extends beyond the curriculum through workshops, seminars, and student-led initiatives that foster awareness of energy and water conservation in building management.

DESIGN AND CONSTRUCTION PRINCIPLES

The University's design principles emphasize both passive and active strategies to reduce energy consumption. Buildings are designed to maximize the use of natural light through transparent windows of appropriate dimensions, reducing reliance on artificial lighting. Natural ventilation is integrated wherever possible, limiting the energy required for heating and cooling. Advanced monitoring systems, including water and lighting sensors, support the ongoing optimization of energy and water use.

TerSU employs recognized green building assessment frameworks such as LEED and national standards for energy efficiency to evaluate and certify both new and existing facilities. Renewable energy technologies, including solar panels and energy-efficient lighting, are incorporated to reduce the University's carbon footprint. Water conservation measures, such as greywater separation, rainwater harvesting, and efficient plumbing fixtures, are integrated into building design and operational protocols.

The University prioritizes the separation and proper management of grey and black water, ensuring compliance with Uzbekistan's sanitation and environmental



regulations. Routine monitoring of building systems ensures that all energy and water efficiency measures are maintained throughout the operational life of the facilities.

OPERATIONAL GUIDELINES

Staff training is an essential element of TerSU's approach. All personnel responsible for building management are provided with practical instruction in energy-saving practices, efficient water use, and maintenance of sustainability infrastructure. Clear labeling within buildings encourages users to minimize waste, monitor consumption, and adopt environmentally responsible behaviors.

The University ensures that maintenance schedules and operational procedures align with energy and water efficiency goals. Regular inspections, preventive maintenance, and prompt correction of defects prevent unnecessary energy consumption and water wastage. These measures are complemented by ongoing assessment through environmental performance tracking systems and alignment with sustainability rankings benchmarking, ensuring continuous improvement.

MONITORING, REPORTING, AND CONTINUOUS IMPROVEMENT

TerSU is committed to transparent monitoring of building performance. Energy and water consumption data are systematically collected and analyzed to identify trends, inefficiencies, and opportunities for improvement. Performance indicators are published annually in sustainability reports, ensuring accountability and enabling benchmarking against national and international standards.

The University maintains a proactive approach to continuous improvement by integrating emerging technologies, innovative building materials, and best practices in sustainable architecture. Research findings, student projects, and staff-led initiatives inform ongoing upgrades to existing buildings and the planning of future constructions, ensuring that sustainability goals are consistently met.

CONCLUSION

Termez State University's Building Standards Policy establishes a comprehensive framework to ensure that all new constructions and renovations are energy- and water-efficient, environmentally responsible, and aligned with international sustainability standards. By embedding sustainability into the core design, operational practices, and educational mission of the University, TerSU demonstrates leadership in green infrastructure and contributes meaningfully to national and global environmental objectives. Through this policy, the University not only optimizes



resource use and operational costs but also provides a healthier, safer, and more productive environment for students, staff, and visitors, fostering a culture of sustainability that permeates all aspects of campus life.

ENTRY INTO FORCE AND REVIEW

The policy is effective from 1 January 2025.

It shall be reviewed every three years, or within six months following any relevant legislative change.

RESPONSIBLE UNIT AND CONTACT

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