



**Non-commercial Joint-Stock Company
«Shakarim University of the City of Semey»**

Energy Efficiency Policy

Semey 2024

1. General Provisions

This Energy Efficiency Policy establishes the core principles, objectives, and mechanisms for managing energy consumption of the Non-commercial Joint-Stock Company “Shakarim University of the City of Semey”.

The Policy is developed in accordance with national strategic documents of the Republic of Kazakhstan, including the Green Economy Concept, the National Plan for Greenhouse Gas Reduction, and other regulatory acts related to energy efficiency and environmental sustainability.

The University reaffirms its commitment to the rational use of energy resources, minimizing environmental impact, and integrating modern low-carbon technologies into its educational, research, and operational activities.

2. Policy Objectives

The main objectives of this Policy are to:

- Enhance the energy efficiency of the University’s infrastructure and reduce overall energy consumption.
- Implement energy-saving and low-carbon technologies in the construction, renovation, and operation of buildings and engineering systems.
- Expand the use of renewable energy sources, including solar and other alternative energy systems, where technically and economically feasible.
- Promote a culture of responsible energy consumption among staff, students, and administrative units of the University.
- Reduce greenhouse gas emissions and the environmental footprint of University operations.

3. Scope of the Policy

This Policy applies to:

- all departments and structural units of the University;
- new construction, renovation, and modernization projects;
- procurement processes for goods, services, and equipment related to energy use;
- administrative and educational activities connected to sustainability.

4. Core Principles

4.1. Energy-Efficient Infrastructure

The University ensures the implementation of energy-efficient solutions, including modern lighting systems, heating, insulation, automated energy management systems, and other relevant technologies.

4.2. Optimization of Energy Consumption

The University conducts continuous monitoring of energy consumption, identifies inefficiencies, and implements corrective measures. Reducing energy losses and improving operational efficiency of equipment are regarded as priority tasks.

4.3. Use of Renewable Energy Sources

The University is committed to gradually integrating renewable energy sources, assessing site potential, and implementing pilot and large-scale low-carbon energy projects.

4.4. Environmentally Responsible Procurement

In procurement activities, preference is given to goods, materials, and services that meet standards of energy efficiency, sustainability, and minimal environmental impact.

4.5. Education and Awareness

The University carries out awareness-raising initiatives, training activities, and the integration of sustainability and energy-efficiency topics into educational programs.

5. Final Provisions

The University reaffirms its commitment to the principles of sustainable development and ensures continuous improvement of energy-efficiency systems and rational resource management.

As part of these efforts, an energy audit was conducted at the Non-commercial Joint-Stock Company “Shakarim University of the City of Semey”. The audit assessed the current state of energy consumption, identified key areas of energy loss, and evaluated the efficiency of existing engineering systems and building infrastructure. According to the conclusions of the energy audit, the University demonstrates a consistent approach to implementing measures aimed at energy saving and improving energy efficiency.

Based on the audit findings, additional recommendations were formulated to further optimize energy use, upgrade outdated equipment, expand the implementation of automated control systems, and increase the share of renewable energy in the University’s energy balance. These recommendations form an integral part of the continuous improvement process outlined in this Policy.

Thus, NAO “Shakarim University of the City of Semey” carries out systematic and ongoing work on energy conservation and enhancement of energy efficiency, ensuring compliance with national environmental priorities and contributing to the sustainable development of the institution.