



D. Serikbayev

**EAST  
KAZAKHSTAN  
TECHNICAL  
UNIVERSITY**

# **Sustainable development and climate change mitigation**

**Policy of NJSC «D. Serikbayev East Kazakhstan  
technical university»**



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# 1. INTRODUCTION

The Non-Profit Joint Stock Company D. Serikbayev East Kazakhstan Technical University (hereinafter referred to as the University) recognizes the global challenges humanity faces in the 21st century, including climate change, environmental degradation, and depletion of natural resources. In response to these challenges, the University assumes an active role in promoting sustainable development through its educational, research, and social activities. Sustainable development forms the foundation of the University's strategy, aiming to integrate the principles of environmental, social, and economic sustainability into all areas of its operations.

The issues of climate change require comprehensive solutions and targeted efforts at the level of individual institutions, regions, and states. The University aspires to be a leader in education and scientific research focused on developing innovative solutions for combating climate change and ensuring the sustainable management of natural resources. This document serves as a strategic guideline for our University in the field of sustainable development and environmental protection.

## 2. GENERAL PROVISIONS

This Policy regulates the general principles and directions of the University's activities in the field of sustainable development and climate change mitigation. The Policy is aimed at introducing environmentally safe and sustainable practices into University life, including education, research, resource management, and engagement with external partners.

As an educational and research institution, the University seeks to integrate the principles of sustainability into its strategic and operational processes, guided by leading international practices and recommendations.

### 2.1 Main Objectives of the Policy

- Development and implementation of innovative solutions in sustainable development and environmental protection.
- Introduction of effective mechanisms for managing the University's carbon footprint and resources.
- Education of a new generation of specialists equipped with knowledge and skills to address environmental and climate challenges.
- Active involvement of students, faculty, and partners in environmentally oriented activities.

## 2.2 Main Directions of the Policy

- Development and implementation of a monitoring system for carbon emissions and energy consumption.
- Education and training of staff and students in energy efficiency practices and the use of green technologies.

## 3. ENVIRONMENTALLY FRIENDLY TECHNOLOGIES AND INNOVATION

The University initiates the creation of laboratories and research centers focused on addressing challenges of sustainable development, environmental protection, and minimizing anthropogenic impacts.

Innovative technologies and methods aimed at reducing environmental harm are introduced into the educational process, fostering environmental awareness and responsibility among students and faculty.

The University encourages students and researchers to participate in international environmental projects, facilitating knowledge and experience exchange as well as integration of best practices in sustainable development.

## 4. EDUCATION AND AWARENESS IN THE FIELD OF SUSTAINABLE DEVELOPMENT

Integration of principles of sustainable development and climate change into academic programs and scientific courses at all levels of education.

Organization of training, seminars, lectures, and other events for students, faculty, and staff on environmental and sustainability issues.

Active engagement of students in projects aimed at solving environmental challenges through student initiatives, conferences, and research.

Development of students' awareness of their role in addressing environmental and social challenges associated with climate change.

## 5. SUSTAINABLE RESOURCE MANAGEMENT

Implementation of principles of efficient and careful use of water, energy, and natural resources across all University facilities.

Development and implementation of waste reduction systems, increasing recycling rates, and minimizing single-use materials.

Establishment of infrastructure for waste collection and recycling, including sorting, processing, and disposal systems.

Encouragement of the use of environmentally friendly and reusable materials in academic and administrative processes.

## 6. SOCIAL RESPONSIBILITY AND ENGAGEMENT WITH THE LOCAL COMMUNITY

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Organization and participation in community-based environmental projects aimed at improving the ecological state of the region.

Involvement of students and staff in environmental activities both within and beyond the University.

Cooperation with government agencies, research institutions, and the private sector to implement joint projects focused on reducing climate and environmental impacts.

Support for local community initiatives in the areas of sustainable development and climate change mitigation.

## 7. MONITORING, ACCOUNTABILITY AND CONTINUOUS IMPROVEMENT

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Implementation of a monitoring system to track the environmental impact of the University's activities, including carbon footprint, water, energy, and waste.

Regular reporting on achievements and outcomes in sustainable development for students, faculty, and the public.

Analysis of results and development of measures to improve the University's environmental performance.

Participation in international sustainability and environmental responsibility rankings.

MONITORING

ACCOUNTABILITY

CONTINUOUS  
IMPROVEMENT

## 8. CONCLUSION

The University is committed to the principles of sustainable development and environmental responsibility. It consistently works toward creating an environmentally friendly and innovative university environment by introducing advanced scientific developments and technologies that help reduce negative impacts on the environment.

Recognizing its responsibility to society and future generations, the University directs its efforts toward raising environmental awareness, advancing scientific research, and integrating best practices in the field of sustainable development.

By uniting the efforts of students, faculty, staff, and partners, the University strives to make a meaningful contribution to the preservation of natural resources and the well-being of society.

