



KOSTANAY ENGINEERING AND
ECONOMICS UNIVERSITY named
after M. DULATOV



APPROVED

Chairman of the Academic Council
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Policy of Kostanay Engineering and Economics University named after M. Dulatov in the field of sustainable development and combating climate change

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Policy of Kostanay Engineering and Economics University named after M. Dulatov in the field of sustainable development and combating climate change (first edition)

The University's policy in the field of sustainable development and combating climate change is based on the principles of social responsibility, innovativeness and integrated approach to solving environmental problems. The most important directions of this policy are the introduction of environmentally friendly technologies, development of scientific research in the field of sustainable energy and ecology, as well as raising awareness of students, faculty and staff of the university about the importance of environmental responsibility.

This policy not only reflects the university's desire to actively participate in the global process of combating climate change, but also contributes to the formation of students' knowledge and skills necessary to work in a sustainable development environment. The implementation of these principles in the educational process and activities of the university plays a key role in training future specialists who will be able to effectively address the challenges of environmental protection and implementation of sustainable development at the national and international levels.

Policy of Kostanay Engineering and Economics University named after M. Dulatov in the field of sustainable development and combating climate change is intended for students, teaching staff, heads of structural units of the University, carrying out the organization of the educational process, and other interested parties.

CONTENTS.

Introduction.....	7
1 Purpose	8
2 Functions and responsibilities.....	9
3 Environmental responsibility	11
4 Community activities and partnerships	13
5 Monitoring and reporting.....	15
6 Policy objectives	17
Appendix A.....	18
Appendix B.....	18

REGULATORY REFERENCES

The following regulatory documents are referenced in this policy:

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| 1. | Law of the Republic of Kazakhstan No. 319-III ZRC dated July 27, 2007 | "On Education" (as amended and supplemented) |
| 2. | Resolution of the Government of the Republic of Kazakhstan dated March 28, 2023 No. 248. | The concept of development of higher education and science in the Republic of Kazakhstan for 2023-2029 |
| 3. | Law of the Republic of Kazakhstan dated July 1, 2024 No. 103-VIII ZRC | "On Science and Technology Policy" |
| 4. | Law of the Republic of Kazakhstan No. 400-VI ZRC dated January 2, 2021 | Environmental Code of the Republic of Kazakhstan |
| 5. | Law of the Republic of Kazakhstan No. 94-V ZRC dated April 11, 2014 | "On Energy Saving and Energy Efficiency Improvement" |
| 6. | Resolution of the Government of the Republic of Kazakhstan dated November 29, 2024 № 1019 | On Approval of the Action Plan for the Implementation of the Concept on the transition of the Republic of Kazakhstan to "green economy" for 2024-2030 |
| 7. | Resolution of the Government of the Republic of Kazakhstan dated December 31, 2021 № 972 | On the Comprehensive Plan to Reduce Greenhouse Gas Emissions in the Republic of Kazakhstan until 2030" |
| 8. | Resolution of the Government of the Republic of Kazakhstan dated September 15, 2022 No. 676 | Action Plan for the implementation of the Sustainable Development Goals (SDGs) in the Republic of Kazakhstan until 2030 |
| 9. | Resolution of the Government of the Republic of Kazakhstan dated April 19, 2023 No. 313 | On the approval of the updated the national contribution of the Republic Kazakhstan in the global response to climate change |
| 10. | Decree of the President of the Republic of Kazakhstan dated February 2, 2023 of the year № 121 | On Approval of the Strategy for Achieving Carbon neutrality of the Republic of Kazakhstan by 2060 |

DESIGNATIONS AND ABBREVIATIONS

The following abbreviations are used in this policy: SDGs - Sustainable

Development Goals

UN - United Nations Organization

EU - European Union

RK - Republic of Kazakhstan

PPS - Faculty of professors and teaching staff

KENEU - Kostanay Engineering and Economics University named after M. Dulatov

Green Economy - An economy focused on environmental sustainability and the use of environmentally friendly technologies

TERMS AND DEFINITIONS

The following terms and definitions are used in this policy:

- sustainable development - a development process that meets the needs of the present without jeopardizing the ability of future generations to meet their own needs, taking into account the social, economic and environmental dimensions;
- environmental responsibility - making commitments and taking actions aimed at minimizing negative environmental impact, rational use of natural resources and maintaining environmental sustainability;
- ecological footprint - the measurable impact of a person's or organization's activities on the environment, expressed through the consumption of natural resources and carbon dioxide emissions;
- green economy - an economic model focused on sustainable use of natural resources, introduction of environmentally friendly technologies and formation of sustainable jobs that contribute to environmental protection;
- renewable energy sources - energy sources that can be recovered through natural processes, such as solar, wind, hydro power;
- innovative environmental technologies - technological solutions aimed at reducing environmental impact, including energy efficient systems and the use of renewable energy sources;
- climate neutrality - an organization's or country's commitment to reducing greenhouse gas emissions and offsetting remaining emissions through carbon reduction projects;
- environmental risk management system - a set of measures and processes aimed at preventing and minimizing environmental risks associated with the organization's activities;
- sustainable construction - the process of design and construction taking into account environmental standards, use of environmentally friendly materials and technologies, minimization of waste in the construction process;
- climate actions and events - programs and initiatives aimed at raising awareness of climate change issues and promoting sustainable environmental practices;
- environmental culture - awareness and acceptance of values of environmentally sustainable behavior, rational consumption of resources and responsible attitude to nature;
- carbon footprint - the total emissions of carbon dioxide and other greenhouse gases caused by human or organizational activities, including energy production, transport and

consumption;

- zero waste - a principle aimed at minimizing the amount of waste produced by the organization in order to recycle and reuse it, excluding waste going to landfills;
- environmental design - the process of developing products, services and technologies taking into account environmental impact, using environmentally friendly materials and minimizing waste at all stages of the life cycle;
- sustainable development monitoring - the process of assessing and monitoring progress in achieving sustainable development goals, including monitoring of resource use, waste and carbon emissions.

INTRODUCTION

In recent decades, sustainable development and combating climate change have become priority directions of the state policy of the Republic of Kazakhstan. In response to global environmental challenges, the country has developed and implemented a number of strategic documents aimed at environmental conservation and rational use of natural resources.

One of the key documents is the Concept of Transition of the Republic of Kazakhstan to Sustainable Development for 2006-2024, approved by the Decree of the President of the Republic of Kazakhstan dated June 4, 2006.

№ 981. This document defines the country's sustainable development strategy, including measures on environmental protection, rational nature management and prevention of environmental offenses.

In the field of education, the Law of the Republic of Kazakhstan on Education of July 27, 2007, No. 319-III, which regulates relations in the field of education, including technical and vocational education, is significant. Article 32 of this law defines the goals and objectives of technical and vocational education aimed at training qualified workers and middle-level specialists.

In addition, the Concept of Transition of the Republic of Kazakhstan to a Green Economy, approved by Presidential Decree No. 496 of May 30, 2013, is aimed at increasing resource productivity, modernizing the economy with the use of efficient technologies and forming an environmental culture among the population.

In the context of the above-mentioned strategies, universities play a key role in preparing professionals with the knowledge and skills to meet the challenges of sustainable development and climate change.

The development of the university's policy in this area is aimed at integrating the principles of sustainable development into the educational process, scientific research and social activities, which corresponds to the national priorities and international obligations of Kazakhstan.

In the face of global environmental challenges that require coordinated efforts at all levels of society, the university is actively involved in developing and implementing strategies to reduce negative environmental impacts and ensure a sustainable future.

The university's policy on sustainable development and climate change is based on the principles of social responsibility, innovativeness and an integrated approach to solving environmental problems. The most important directions of this policy are as follows: the introduction of environmentally friendly technologies, the development of research in the field of sustainable energy and ecology, and raising awareness of the importance of environmental responsibility among students, faculty and staff of the university.

This policy not only reflects the university's desire to actively participate in the global process of combating climate change, but also contributes to the formation of students' knowledge and skills necessary to work in a sustainable development environment. The implementation of these principles in the educational process and activities of the university plays a key role in training future specialists who will be able to effectively address the challenges of environmental protection and implementation of sustainable development at the national and international levels.

1 PURPOSE

The goal of KEnEU's policy on sustainable development and climate change is to form sustainable practices aimed at minimizing the environmental impact of the university's activities, contributing to the solution of global environmental problems and preparing students with the necessary knowledge and skills to effectively counter climate change and implement the principles of sustainable development in various spheres of life and professional activities.

:

- Reducing the university's carbon footprint by adopting environmentally friendly technologies and practices;

- development of scientific research and educational programs in the field of sustainable energy, ecology and climate change;

- raising awareness among students, faculty and staff about the importance of sustainability and environmental protection;

- Facilitating the integration of sustainable approaches into the management and teaching processes of the university.

This goal aims to create an innovative, environmentally responsible, and science-based environment at the university that contributes to the realization of global and national objectives to protect the climate and conserve natural resources for future generations

2 FUNCTIONS AND RESPONSIBILITIES

Functions and responsibilities of KEnEU in the field of sustainable development and climate change:

- 1. Development and implementation of sustainable development strategies:**
 - Development of long-term and short-term programs aimed at reducing the environmental impact of the university's activities.
 - Identify priorities and targets for carbon footprint reduction, energy and water conservation and waste management.
- 2. Educational Activities:**
 - Incorporating the principles of sustainable development and ecology into educational programs at all levels of learning.
 - Organize courses, trainings, lectures and workshops for students, faculty and staff on climate change and sustainable practices.
 - Creation of interdisciplinary educational programs aimed at training specialists in environmental sciences, sustainable energy and natural resource management.
 - Mandatory annual specialized training on environmental aspects of sustainable development for employees (teaching staff and professional staff)
 - Conducting sustainability literacy and knowledge assessments of all university faculty and staff, including using the Sulitest TASK
- 3. Research Activities:**
 - Promoting research on climate change, sustainable technologies and environmental protection.
 - Development of innovative projects aimed at solving environmental problems and implementing effective solutions for sustainable development.
 - Collaboration with public and private organizations, academic institutions and international partners to share knowledge and develop new solutions climate resilience.
- 4. Environmental responsibility in university governance:**
 - Implementation of sustainable practices in the daily activities of the university, such as energy saving, recycling, and rational use of resources.
 - Incorporating green technologies into the university's infrastructure, such as utilizing renewable energy sources, energy-saving systems and environmentally friendly materials.
 - Control over compliance with environmental standards and norms in the university's activities.
- 5. Increased community awareness and engagement:**
 - Organizing environmental activities, events and campaigns for students, faculty and staff to raise awareness about climate change and sustainable development.
 - Forming and supporting initiatives and student organizations engaged in environmental activism and promoting sustainable practices.
 - Create and support platforms for sharing experience and best practices in the field of sustainable development among universities and educational institutions.
- 6. Collaboration with external partners:**

- Establishing partnerships with government agencies, international organizations, NGOs and the business sector to implement joint projects in the field of sustainable development and combating climate change.
- Participation in international and national initiative projects and programs aimed at increasing resilience in the face of climate change.

7. Monitoring and evaluation of effectiveness:

- Evaluation of the effectiveness of the implemented programs and initiatives aimed at sustainable development.
- Monitor the university's environmental indicators such as carbon footprint, energy consumption, water use and waste to optimize them.

8. Participation in international environmental initiatives:

- University involvement in international environmental agreements and initiatives, such as the Paris Climate Agreement, to support global efforts to reduce climate change.
- Application of international standards of sustainable development in the educational process and university infrastructure.

These roles and responsibilities will ensure that sustainability principles are integrated into various aspects of university life, promoting active participation in addressing global environmental issues and preparing professionals ready to meet the challenges of climate change

3 ENVIRONMENTAL RESPONSIBILITY

KEnEU's environmental responsibility in the area of sustainability development and combating climate change is a commitment to environmental sustainability **and** the implementation of practices aimed at minimizing the negative impact on the environment.

The University recognizes its role in addressing global environmental issues and strives to act in accordance with the high environmental standards. The most important aspects of environmental responsibility are:

1. **Rational use of natural resources:**
 - The University is committed to the efficient use of natural resources such as energy, water and raw materials, minimizing their consumption and reducing their ecological footprint.
 - Introduction of energy-saving technologies and systems aimed at reducing energy costs and optimizing the use of water resources.
2. **Waste management and recycling:**
 - The University's strategy includes actively working to sort and recycle waste, reduce litter and move towards zero waste principles.
 - Development of an environmentally friendly recycling and reuse of materials, as well as reducing the use of disposable plastic products at the university
3. **Utilization of renewable energy sources:**
 - Implementing green technologies such as solar panels, wind turbines and other renewable energy sources to supply the needs of the university.
 - Assessing opportunities for transitioning to clean energy sources, reducing dependence on fossil resources.
4. **Education and nurturing an environmental culture:**
 - The University actively shapes students and employees' awareness of the importance of a sustainable approach to the environment through educational programs, courses and trainings on climate change and environmental issues.
 - Incorporating environmentally responsible behavior into the daily practices of students, faculty, and staff, which includes adherence to energy conservation standards, waste sorting, wise resource consumption, and responsible stewardship of nature.
5. **Innovation and Environmental Research:**
 - The University supports and promotes research that addresses climate change and environmental sustainability.
 - Stimulating the development and implementation of innovative technologies and sustainable solutions that can be used to combat global environmental challenges.
6. **Social responsibility and participation in community initiatives:**
 - The University actively participates in environmental actions, events and campaigns at local and national levels, supports and initiates environmental projects aimed at raising awareness of climate change issues.
 - Collaboration with environmental organizations, government agencies and the private sector to work together towards sustainable development.
7. **Environmental impact assessment and monitoring:**
 - An important part of environmental responsibility is the continuous monitoring and assessment of the environmental impact of university

activities.

- Regularly verify the effectiveness of environmental initiatives and programs, introducing methods to measure carbon footprints and other sustainability indicators.

8. Environmentally friendly infrastructure:

- When designing and constructing new university facilities, the principles of sustainable construction and the use of environmentally friendly materials and technologies are taken into account.
- Creation of green spaces, gardens and parks on the campus to maintain biodiversity and improve the quality of the environment.

Thus, KEnEU's environmental responsibility is based on an integrated approach to sustainable development aimed at preserving nature, reducing environmental impact and educating future professionals who will be able to effectively address environmental protection and climate change issues.

4 COMMUNITY ACTIVITIES AND PARTNERSHIPS

KEnEU's public activities and partnerships in the field of sustainable development and combating climate change play a key role in implementing environmental initiatives and creating a sustainable social environment. The University actively participates in environmental and socially responsible projects, which contributes not only to the development of the institution, but also to the formation of environmental culture among students, teachers and the general public.

1. Environmental education and participation in social initiatives

The University actively participates in social actions and campaigns aimed at raising awareness of climate change and sustainable development issues. As part of its social activities, the University:

- Organizes lectures, seminars and roundtables on climate change, environmental protection and sustainable practices.
- Conducts environmental activities such as tree planting, water body cleanup, and litter cleanup that engage students, faculty, and the community in hands-on activities.
- Participates in international and national environmental days, such as Earth Day or Environmental Day, drawing attention to global environmental issues.

2. Partnerships with public and private organizations

The University actively develops partnerships with government agencies, NGOs, private companies and international organizations to implement joint projects in the field of sustainable development and climate change:

- Cooperation with environmental NGOs and government agencies allows us to participate in major projects aimed at nature conservation and combating the effects of climate change.
- The University works closely with environmental and scientific centers, which facilitates the exchange of experience as well as the implementation of innovative solutions in the field of sustainable technologies.
- Partnerships with local and international companies within the framework of corporate social responsibility help promote environmentally friendly technologies and practices at the business sector level.

3. Involvement of students in environmental initiatives

The University actively involves students in environmental activities, creating platforms for social responsibility:

- Student environmental clubs and organizations are actively involved in developing and implementing sustainable projects, such as organizing green events, environmental festivals and competitions.
- Conservation volunteer programs give students the opportunity to directly participate in community and environmental initiatives, increasing their level of responsibility and environmental awareness.

4. Cooperation with international partners

KEnEU is actively developing international cooperation in the field of sustainable development and combating climate change:

- The University participates in international projects and programs, such as programs of the United Nations, the International Labor Organization (ILO), the World Bank and other

world organizations aimed at introducing sustainable technologies and practices.

- Partnerships with foreign universities allow sharing knowledge and experience in the field of environmental sustainability and climate change, as well as jointly developing research and innovations aimed at solving environmental problems.

- Participation in international environmental conferences and forums helps the university to be at the center of global trends in sustainable development and actively participate in global initiatives to combat climate change

5. Role in the local community

As an important educational and scientific institution, the university assumes responsibility for the environmental health of the region:

- Organize and support initiatives at the regional level, such as local environmental projects for greening, water conservation and air quality improvement.

- Collaborate with local authorities and organizations to develop and implement sustainable practices within the framework of urban planning and sustainable development of the region.

6. Support for innovative startups and social entrepreneurs

The University actively supports environmental start-ups and sustainable business initiatives:

- The University provides a platform for startups working in the field of ecology and sustainable development, supporting them through consultations, educational programs and creating conditions for implementing innovative solutions.

- Partnerships with social entrepreneurs help integrate sustainable business models and social innovation into the university's academic and practical activities.

7. Supporting environmental responsibility at the level of civil society

The University promotes civic engagement in the environmental field:

- The University encourages students and staff to be active participants in civic initiatives aimed at environmental protection and sustainable development.

- Conducting training programs and courses aimed at developing active civic participation in sustainability and environmental issues.

Through its public activities and partnerships, KEnEU strives to be not only an educational and research center, but also an active participant in processes aimed at addressing global environmental challenges and creating a sustainable future.

5 MONITORING AND REPORTING

Monitoring and reporting are important components of the university's sustainability and climate change policy. They ensure transparency, effective management and continuous improvement of environmental practices, contributing to the achievement of established sustainability and environmental goals. KEnEU adheres to the principles of systematic monitoring and regular reporting to assess the results of its environmental activities.

1. Monitoring of environmental impact

Monitoring involves systematic observation and collection of data on the impact of university activities on the environment. The main areas of monitoring include:

- **Energy consumption:** Assessment of the level of energy consumption (electricity, gas, heat) on the territory of the university. Tracking consumption dynamics and identifying areas for improving energy efficiency and switching to renewable energy sources.
- **Water use:** Monitoring of water consumption volumes, including water supply, wastewater disposal and irrigation systems, to optimize water consumption and minimize losses.
- **Waste generation:** Monitoring of the volume and types of waste produced by the university, as well as the efficiency of their recycling and utilization. Analyze methods of waste volume reduction and implementation of "zero waste" principles.
- **Carbon Footprint:** Assess carbon emissions associated with university operations, including transportation, energy use, and other sources of emissions. Develop measures to reduce carbon footprint and transition to more environmentally friendly technologies.

2. Monitoring and data collection tools

The university uses various tools and methods for effective monitoring:

- **Digital systems and platforms for resource accounting:** Implementation of systems for energy, water and waste accounting, enabling detailed accounting and data analysis for decision-making to improve environmental sustainability.
- **Environmental Audits:** Conduct regular environmental audits to identify weaknesses in the university's environmental policy and make recommendations to improve environmental performance.

- **Experience and standards of international organizations:** The university uses international best practices and standards such as ISO 14001 (environmental management) in its monitoring process to assess environmental performance.

3. Reporting and transparency

KEEnEU is committed to open and transparent reporting on environmental issues:

- **Annual Environmental Reports:** The University publishes annual reports that present monitoring results on key environmental indicators such as energy consumption, water use, waste and carbon footprint. The reports also provide information on successes achieved and sustainability initiatives implemented.
- **Reports for stakeholders:** The University prepares reports for students, faculty, staff, and external partners, including governmental organizations and environmental NGOs. These reports are aimed at raising awareness of the university's activities and its contribution to sustainable development.
- **Publications in scientific and environmental publications:** The University also publishes the results of its research and innovative projects in the field of sustainable energy and ecology, which allows it to share its experience and developments with a wide audience.

4. Evaluating effectiveness and adjusting strategies

The results of monitoring and reporting are used to assess the effectiveness of existing programs and adjust the university's sustainable development strategy:

- **Analysis of results and program adjustment:** Regular data analysis allows the university to identify problems and take measures to improve the environmental situation in a timely manner. If any areas of the strategy are not achieving their goals, new measures and initiatives are developed to improve efficiency.
- **Continuous improvement:** Based on reporting and monitoring, new plans and targets for the future are developed, enabling the university to continuously improve its efforts in the field of sustainable development and climate change.

5. External verification and audit

In addition to internal monitoring and reporting, the university may engage external auditors and environmental experts for independent assessment of its activities:

- **Eco-audit:** Periodic external eco-audit to verify the compliance of the university's environmental policy with international standards.
- **External environmental certifications:** Obtain and maintain certifications, such as ISO 14001 or EMAS, that demonstrate the university's commitment to international standards in environmental management.

6. Community feedback and engagement

University reporting also includes collecting feedback from students, faculty, and staff:

- **Questionnaires and Surveys:** Periodic student and staff surveys to assess satisfaction with the university's environmental policy and identify areas for improvement.
- **Discussions and workshops:** Hold meetings and workshops with students and staff to discuss environmental policies and possible changes in future strategies.

6 OBJECTIVES POLICY

KEnEU has several key goals in the area of sustainable development and climate change.

1. Reducing the environmental impact of the university

To ensure that the carbon footprint, energy and water consumption, and waste produced by the university is reduced through the incorporation of sustainable technologies and practices into the daily operations of the institution.

2. Integration of sustainable development principles into the educational process

Incorporate the principles of sustainable development, environmental protection and climate change into curricula and courses to prepare students with the knowledge and skills to deal with global environmental challenges.

3. Development of scientific research in the field of ecology and sustainable technologies

Stimulate and support scientific research aimed at solving environmental problems, developing innovative solutions in the field of sustainable energy, efficient use of natural resources and minimizing environmental impact.

4. Ensuring environmental awareness and responsibility among students and employees

To raise awareness among students, faculty and staff of the importance of environmental responsibility, sustainable consumption and environmental protection through educational initiatives, campaigns and participation in environmental projects.

5. Sustainable management of university resources and infrastructure

Ensure the sustainable use of university resources (energy, water, materials) and the implementation of green technologies in infrastructure, including the use of renewable energy, energy-efficient systems, and environmentally friendly materials.

6. Strengthening partnerships and cooperation for sustainable development

Develop cooperation with public authorities, private sector, scientific and environmental organizations for joint implementation of projects aimed at combating climate change and sustainable development at local, national and international levels.

7. Supporting sustainable development initiatives at the regional level

Participate in environmental and social initiatives at the regional level, supporting projects aimed at conserving natural resources and increasing the resilience of local communities to the effects of climate change.

8. Monitoring and evaluation of the university's environmental activities

Develop a system monitoring reporting for evaluate the effectiveness of policies university in the field sustainable development, as well as adjust actions depending on depending on the data received and changes in the environmental situation.

9. Creating a climate-neutral campus

Strive to meet the university's greenhouse gas reduction and carbon neutrality goals through optimizing resource use and implementing sustainable technologies.

These goals aim to integrate sustainability and environmental protection into the strategic management of the university, increase responsibility among students and staff, and contribute to addressing global environmental issues.

Annex A (mandatory) Checklist**F.4.02-03**

Position	NAME	Date	Caption

F.4.01-06**Annex B (mandatory)****Amendment Record Sheet**

№	Notification number of alterations	Date of approval of the change	This document has been amended to include changes		
			Complete name	Date	Caption