



ҚАРАҒАНДЫ ИНДУСТРИЯЛЫҚ УНИВЕРСИТЕТІ

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**APPROVE**  
Chairman of the Board - Rector

  
  
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## SUSTAINABILITY POLICY KARAGANDA INDUSTRIAL UNIVERSITY

Temirtau, 2022

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## Introduction





On September 25, 2015, at the UN Headquarters in New York, world leaders, including heads of state and government, adopted the 2030 Agenda for Sustainable Development, which includes a list of 17 Sustainable Development Goals aimed at eradicating poverty, combating inequality and injustice, and addressing the challenges of climate change.





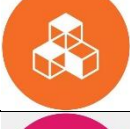





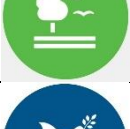


Sustainable development, according to the UN, is defined as development that meets the needs of the present generation without compromising the ability of future generations to meet their own needs. Sustainable development involves a concerted effort to create an inclusive, sustainable and resilient future for people and the planet.

The 2030 Agenda is based on five main components - the so-called 5"P" - people, prosperity, planet, partnership and peace (People, Partnership, Peace, Planet and Prosperity), traditionally viewed through the prism of three main dimensions - social, economic and ecological.

The economic direction is associated with the creation of customer value by the organization and strengthening the financial performance of its activities, the Social direction includes the effective management of social and national diversity, equal rights of gender, social and national groups and social justice, and the environmental direction is mainly associated with the issues of waste management and conservation of the so-called natural capital.

The eradication of poverty in all its forms and manifestations is one of the necessary conditions for sustainable development. This requires sustained, inclusive and equitable economic development, the creation of greater opportunities for all, the reduction of inequalities, the improvement of basic indicators of living standards, the promotion of equitable social development and inclusion, and the promotion of integrated and sustainable management of natural resources and ecosystems.

<b>The goals of sustainable development</b>	
	Goal 1. The universal elimination of poverty in all its forms.
	Goal 2. Eliminate hunger, ensure food security and improve nutrition and promote sustainable agricultural development.
	Goal 3. Providing a healthy lifestyle and promoting well-being for all at any age.
	Goal 4. Ensuring inclusive and equitable quality education and promoting lifelong learning opportunities for all.

	Goal 5. Ensuring gender equality and empowering all women and girls.
	Goal 6. Ensure availability and rational use of water resources and sanitation for all.
	Goal 7. Providing access to affordable, reliable, sustainable and modern energy sources for all.
	Goal 8. Promoting sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.
	Goal 9. Creating a stable infrastructure, promoting inclusive and sustainable industrialization and innovation.
	Goal 10. Reducing inequalities within and between countries
	Goal 11. Ensuring the openness, security, vitality and environmental sustainability of cities and settlements.
	Goal 12. Ensuring transition to rational consumption and production patterns.
	Goal 13. Take urgent measures to combat climate change and its consequences.
	Goal 14. Conservation and rational use of oceans, seas and marine resources for sustainable development.
	Goal 15. Protecting and restoring terrestrial ecosystems and promoting their rational use, rational forest management, combating desertification, cessation and reversal of land degradation and cessation of the loss of biological diversity.
	Goal 16. Promoting the building of a peaceful and open society for sustainable development, ensuring access to justice for all and creating effective, accountable and participatory institutions at all levels.
	Goal 17. Strengthening the means of implementation and revitalizing the Global Partnership for Sustainable Development.

The Sustainable Development Goals and related targets are global in nature and universally applicable, while ensuring that different national capacity conditions are taken into account in development levels and that national strategies

and priorities are respected. Because they are interrelated, efforts to achieve them must be comprehensive.

Education for sustainable development is considered today as a necessity, as one of the key conditions for an intellectual, inclusive, fair, taking into account the interests of future generations, modernization of approaches to the economy, to business activities, to the system of environmental management, consumption, and the world order as a whole. These are general guidelines adopted at the international and national levels.

The role of universities in the interests of sustainable development involves broad intersectoral and interdisciplinary cooperation, reflecting a new integrated approach to the interconnected development of society, the economy and the environment.

## **1. Karaganda Industrial University as a university of sustainable development**

As a university aimed at sustainable development, Karaganda Industrial University (hereinafter referred to as KarIU, University) implements the following principles at all levels of its activities:

- the principle of sustainability in all functions and business processes of the university, starting with educational and research, administrative, economic and financial activities, construction, recruitment, student recruitment, development of cooperation programs and partnerships with other organizations, etc.;
- the principle of inclusiveness in the implementation of actions aimed at harmonizing the relationship between space, environment and people in order to reduce the ecological footprint of the university, improve the quality of life, social inclusion, reduce inequality, promote cultural growth and sustainable economic progress of society; the principle of equality for all employees, teachers, students in the opportunity to realize their potential to achieve sustainable development goals.

## **2. Areas of activity of KarIU for the implementation of the principles of sustainable development**

1. Inclusion of sustainable development issues in the curricula and research topics of the university.

2. Building the current activities of the university on the principles of sustainable management of infrastructure and the environment, which involves the use of energy-saving equipment, technologies, alternative sources and types of energy.

3. Creation of conditions for students and university staff to conduct

scientific research, participate in projects, work in laboratories in order to acquire knowledge, skills and abilities for the implementation of projects on green energy and resource conservation within technology parks, business incubators, start-ups, etc.

4. Concentration of efforts and intellectual potential of teachers, researchers, students on the creation and implementation of environmentally friendly, resource-saving and energy-efficient technologies, priority development of innovative projects in the field of environmental protection and sustainable development.

5. Raising the level of awareness, forming a culture of social responsibility of society in the field of sustainable development, through environmental education and upbringing, contributing to the assimilation of a number of environmental and ethical values, norms of behavior that are required to ensure sustainable development.

### **3. Education and research at KarIU**

*Main goal:* Assistance in the implementation of sustainable development goals by conducting scientific research in the field of environmental protection, as well as environmental education and upbringing, contributing to the assimilation of a number of environmental and ethical norms, values, and professional skills. Modernization and optimization of the educational and research process on environmental protection and sustainable development at the university.

*Tasks:*

1. Increasing the content of the component of environmental protection and sustainable development in the educational process of the university.

2. Introduction of new and development of existing curricula and syllabuses, methods and forms of education in the field of environmental protection and sustainable development.

3. Expansion of the coverage of faculties and departments of the university with education in the field of environmental protection and sustainable development.

4. Improving the quality of training of human resources and meeting the needs of society in professional personnel in the field of environmental protection and sustainable development.

5. Increasing the level of awareness of all groups of the population through environmental education and upbringing, contributing to the assimilation of a number of environmental and ethical norms, values, professional skills that are required to ensure sustainable development.

6. Increasing the number of projects and research work on environmental protection and sustainable development, conducted at the interfaculty, city, state and international levels.

7. Development of infrastructure for conducting research work on environmental protection and sustainable development.

8. Popularization of knowledge, activities, research and projects on environmental protection and sustainable development among all groups of the population through the media.

#### **4. Infrastructure and environment management**

*Main goal:* Optimization and improvement of coordination activities in the field of strategic planning, design and development of the university campus through the introduction of energy efficient technologies and the latest achievements of science and technology.

*Tasks:*

1. Integration of knowledge and international experience on sustainable development issues, introduction of the principles of sustainable development into the practice of decision-making on planning, design and development of university infrastructure.

2. Study, adaptation and implementation of advanced technologies and projects with a focus on optimizing the use of the campus and its infrastructure and university buildings; improving energy efficiency, including educational buildings, scientific laboratories and hostel buildings; optimization of recycling of secondary raw materials and waste disposal.

3. Integration of the campus and the university itself into the city environment through cooperation with local executive bodies (LEBs) as experts and consultants in making certain management decisions on the development of urban infrastructure.

4. Cooperation with universities, city, state, public and international organizations in the study and dissemination of accumulated experience, mutual support and popularization of ideas and new technologies for sustainable development through the organization of joint events, actions, joint projects and programs for sustainable development.

#### **5. "Green energy"**

*Main goal:* Formation of a systematic, integrated approach to the transition of the university to an energy efficient economy through the implementation of measures for energy efficiency, saving water, electricity, waste disposal, etc.

*Tasks:*

1. Carrying out measures to save and improve the efficiency of electricity and heat consumption.

2. Development and implementation of programs for the distribution of electricity, electricity metering in the buildings and buildings of the university.

3. Implementation of energy saving programs, encouraging the reduction of energy use.

4. Development of programs and measures to save water consumed.
5. Development of measures and encouragement of the use of water management systems.
6. Implementation of programs to reduce greenhouse gas emissions.
7. Implementation of programs and activities to encourage employees and students to recycle waste.
8. Initiation of agreements with city organizations for the collection, disposal, recycling of waste.
9. Processing of inorganic waste and organic waste, creation of conditions for separate collection of waste, etc.
10. Creation of programs and activities to reduce the harm caused by non-environmental modes of transport. Limiting the number of vehicles used on campus.



