Ministry of Science and Higher Education of the Republic of Kazakhstan

Non-Commercial Joint-Stock Company "Toraighyrov University"

Reviewed and approved
By the decision of the Board of Directors of
Toraighyrov University
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Protocol №5

SUSTAINABLE DEVELOPMENT POLICY OF

NJSC "TORAIGHYROV UNIVERSITY"

Pavlodar
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Contents

1 General terms

The present Regulation establishes the policy of sustainable development of Non-Commercial Joint-Stock (hereinafter - NJSC) "Toraighyrov University". Toraighyrov University strives to become a leader in sustainable development and actively supports the goals of the Union Nations (UN). We recognize the importance of integrating sustainable practices into all aspects of our activity and are committed to working on their implementation in education, scientific research, campus management, and community engagement. This policy aims to achieve the Sustainable Development Goals (SDGs), ensuring a sustainable future for our students, staff and the entire community.

2 Regulatory framework

Transforming our world: the 2030 Agenda for Sustainable Development https://undocs.org/en/A/RES/70/1
The UN Global Sustainable Development Report (GSDR)
Kazakhstan's Development Strategy until 2050.
National Development Plan of Kazakhstan until 2025.
Concept of Higher Education and Science Development in the Republic of Kazakhstan for 2023-2029 years № 248 from March 28, 2023.
The Law of the Republic of Kazakhstan "On Education" from July 27, 2007.
The Law of the Republic of Kazakhstan "On Science" from February 18, 2011.
The Law of the Republic of Kazakhstan "On State Youth Policy in the Republic of Kazakhstan" from February 9, 2015.
The Law of the Republic of Kazakhstan "On Commercialization of Results of Scientific and (or) Scientific and Technical Activities" from October 31, 2015.
Order of the Minister of Education and Science of the Republic of Kazakhstan "On Approval of the Structure and Rules for Developing the Development Program of Higher and/or Postgraduate Education Organizations" № 590 from October 25, 2018.
Development Program of NJSC "Toraighyrov University" for 2023 – 2029.

3 Sustainable Development Goals and Targets

Objective 1. Poverty eradication:
-develop scholarship programs for students from low-income families;
-create funds to support students in difficult life situations;

-organize free courses and trainings of skill enhancement for socially disadvantaged students;

-realization of charitable actions and programs to help those in need.

Objective 2. Hunger eradication:

-implement programs to distribute free or affordable food to students on campus;

-create social projects to improve the nutrition of students and staff;

-support local farming and ration projects, ensuring a sustainable supply for the university;

-development of a healthy catering system in university's canteens with an emphasis on healthy food.

Objective 3. Health and well-being:

-develop accessible to all students' medical and psychological services;

-organize students and teachers regular sports and recreational activities;

-implement healthy lifestyle and stress-management training programs;

-installation of water drinking fountains in the sports complex of the university;

-installation of a gym for staff in the main training building;

-revival of the President's Physical Fitness Tests for students and staff;

-implementation of psychological support for students and staff.

Objective 4. Quality education:

-update curricula to reflect new scientific research and technologies;

-develop access to online education and ensure equal opportunities for distance learning;

-realize a professional development program for teachers to improve the quality of teaching;

-publishing scientific articles, monographs and holding scientific conferences on sustainable development issues, reflecting the university's achievements in the field of ecology, resource conservation and innovative technologies;

-open lectures and seminars by leading scientists and expert-practitioners for students on environmental safe technologies, energy saving and waste management topics.

Objective 5. Gender equality:

-implement support programs for women in scientific and technological fields;

-develop and maintain an equal opportunity policy for student and staff recruitment;

-conduct trainings on gender equality and respect at the university;

-supporting women's participation in sports events on an equal basis with men, introducing new sports for women, increasing the number of female-participants in the Spartakiade among faculty and staff members.

Objective 6. Clean water and sanitation:
-upgrade the campus water supply and wastewater system with sustainable technologies;
-develop a water conservation and wastewater treatment program;
-raise awareness of students and staff about the importance of water conservation.

Objective 7. Affordable and clean energy:
-provide solar panels and other renewable energy sources on campus;
-conduct energy efficiency audits of all university's buildings and introduce energy efficient technologies;
-develop training programs for students and staff on sustainable energy issues;
-optimization of the university's energy consumption, use of energy efficient technologies.

Objective 8. Decent work and economic growth:
-develop career centers and students internship programs;
-support student and graduates startups with resources advice;
-organize job fairs and partnership projects with business and industry.

Objective 9. Industrialization, innovation and infrastructure:
-establishment of an environmental sustainability research center;
-creation of students clubs and volunteer organizations on ecology and sustainable development engaged in promoting sustainable lifestyle. Organizing thematic events for World Environment Day, Earth Day and other eco-days.
-develop sustainable campus infrastructure with a focus on innovative technologies;
-support sustainable development scientific research and projects;
-development, implementation and financing of scientific projects on environmentally clean technologies renewable energy sources and sustainable agriculture, such as development of technologies for rational use of water and soil, organic farming methods, organic waste recycling projects, etc.;
-holding contests, hackathons and projects aimed at finding innovative solutions in the field of sustainable development. Supporting startup programs for students aimed at creating environmentally clean technologies and solutions.

Objective 10. Reducing inequalities:
-implement programs for students with disabilities, ensuring equal access to educational resources;
-promote the creation of inclusive learning and research environments;

-support cultural diversity through projects and events aimed at fostering respect for differences.

Objective 11. Sustainable cities and communities:
-develop projects for sustainable urbanization and improvement of the urban environment;
-contribute to an involvement of students in local communities to improve their social infrastructure;
-implement initiatives to improve public transportation and reduce vehicle emissions.

Objective 12. Responsible consumption and production:
-implement of a system of separate waste collection and recycling of secondary materials: installation of containers for separate waste collection (plastic, glass, paper, organic waste) on the territory of the university, creation of a laboratory for recycling plastic waste for scientific and educational purposes;
-promote the use of organic products in university's canteens and shops;
-conduct educational campaigns on responsible consumption and sustainable behavior;
-reduction of paper usage by the administration through digitalization of documents.

Objective 13. Combating climate change:
-develop a strategy to reduce the university's carbon emissions, and reporting on the level of CO_2 emissions;
-support scientific research aimed at combating climate change;
-implement sustainable practices into the university's academic and administrative processes.

Objective 14. Life underwater:
-develop programs on water protection and sustainable fisheries;
-implement water treatment and water ecosystem monitoring systems on territory of campus;
-conduct educational activities aimed at protecting the oceans and marine ecosystems.

Objective 15. Life on earth:
-develop and implement programs to protect local ecosystems and biodiversity;
-contribute to scientific research aimed at preserving rare species and ecosystems;
-organize eco-parks and green zones on the university's territory, maintaining the ecological balance. Greening of the university's territory, creation of ecological zones and implementation of landscape design principles with minimal impact on the environment.

Objective 16. Peace, justice and effective institutions:
-establish a system of transparent and fair university's governance;
-organize training courses on human rights and civil liberties;
-ensure fairness and equality for all students and staff in career development and assessment of achievement.

Objective 17. Partnership for sustainable development:
-develop partnerships with other universities, state institutions and businesses to achieve sustainable development goals;
-organize joint projects and research with international scientific organizations;
-involve students in global initiatives and projects on sustainable development;
-creating a student-led society with the goal of sustainable development;
-organizing outreach projects (education, health, information services, reading, community engagement, training manuals) for the local community.

4 Expected results

4.1 Expected results include reduction of financial burden on students from low-income families through expansion of scholarship programs and creation of support funds. Organization of free courses and trainings for socially vulnerable groups will improve their qualification and employability, and charity actions will strengthen the social responsibility and involvement of students. These efforts will contribute to the improvement of students' educational and professional prospects.

4.2 The improvement of students' access to nutrition is expected through the implementation of free or affordable food distribution programs on campus. The development of social projects and support for local farmer initiatives will ensure a sustainable supply for the university, while an updated canteen food system will increase the availability of healthy and wholesome food for students and staff.

4.3 Improving access of students and staff to medical and psychological services, as well as increasing their physical activity through the organization of regular sports and recreational activities. The introduction of healthy lifestyle and stress management programs will improve the wellness of the university's community. The installation of drinking fountains and a gym in university's buildings will provide convenience for students and staff, and the revitalization of the Presidential Physical Fitness Tests will improve the fitness and health of all participants.

4.4 Updating curricula to take into account new scientific achievements and technologies, which will improve the quality of education. Development of online education and provision of equal opportunities for distance learning will ensure accessibility of education for all students. Teacher Development Program will improve the quality of teaching, while publications of scientific articles and

holding of conferences will strengthen the university's reputation in the field of sustainable development. Open lectures and seminars with the participation of leading scientists and experts will contribute to the spread of environmental and sustainable technology knowledge among students.

4.5 Increase women support in science and technology fields through specialized programs, as well as implementation of equal opportunity policies in student and staff recruitment. Conducting trainings on gender equality and respect will improve the atmosphere of inclusiveness at the university. Supporting women's participation in sports activities and increasing their number in Spartakiades among faculty and staff will ensure a level playing field for all participants, promoting gender equality in sports.

4.6 Upgrading the campus water and wastewater system with sustainable technologies that will improve water efficiency. Developing a water conservation and wastewater treatment program will help reduce the university's ecological footprint. Increasing student and staff awareness of the importance of water conservation will promote more responsible water resources usage and keep the university clean.

4.7 Introduction of solar panels and other renewable energy sources on campus, which will reduce dependence on traditional energy resources. Conducting energy efficiency audits of all university's buildings and implementing energy efficient technologies will significantly reduce energy consumption. Developing sustainable energy training programs for students and staff will increase their awareness and involvement in energy conservation. Optimization of the university's energy consumption using energy efficient technologies will lead to a significant reduction in costs and environmental impact.

4.8 Developing students career centers and internship programs, which will increase their chances of successful employment. Supporting student and graduates startups through the provision of resources and counseling will contribute to the development of entrepreneurialism and job creation. Organizing job fairs and partnership projects with business and industry will improve the university's links with the labor market, which will provide students and graduates access to relevant career opportunities.

4.9 Establishment of an environmental sustainability research center to serve as a platform for scientific research and innovation. Student environmental and sustainability clubs and volunteer organizations will be actively involved in promoting sustainable lifestyles through thematic events such as World Environment Day and Earth Day. Developing sustainable campus infrastructure using innovative technologies will contribute to the creation of an environmentally clean and energy efficient space. Supporting scientific research projects and startups focused on clean technology, waste recycling and renewable energy will ensure the development of innovative sustainability solutions. Conducting competitions and hackathons will stimulate students to develop new solutions for a sustainable future.

4.10 Increasing the inclusiveness of the university through implementation of programs that ensure equal access of students with disabilities to educational

resources. Creating inclusive teaching and research environments will ensure equal conditions for all students, regardless of their characteristics. Supporting cultural diversity through projects and activities aimed at respect for differences will help create an atmosphere of tolerance and mutual respect among students and university staff.

4.11 Development of projects on sustainable urbanization and improvement of the urban environment, which will contribute to the creation of environmentally clean and livable cities. Involvement of students in local communities will help to improve social infrastructure, developing active participation in city life. Implementing initiatives to improve public transportation and reduce vehicle emissions will improve air quality and reduce carbon footprint, making the city more sustainable and environmentally clean.

4.12 Implementing a separate collection system for waste and recyclable materials, which will increase recycling rates and reduce litter on campus. Installing separate collection bins and establishing a plastic waste recycling lab will contribute to student scientific research and education on sustainable waste management. Promoting organic products in the university's canteens and stores will improve the health of students and staff and reduce the environmental footprint. Educational campaigns on responsible consumption and sustainable behavior will raise awareness among students and staff, and reducing of paper usage through digitalization of documents will reduce overall resource consumption at the university.

4.13 Results include the development of a strategy to reduce the university's carbon emissions and the implementation of CO_2 emissions level reporting, which will reduce the environmental footprint and increase transparency. Support for climate change research will support the development of innovative solutions and technologies for sustainable development. Incorporating sustainable practices into the university's academic and administrative processes will improve environmental sustainability and create the basis for a more environmentally conscious university environment.

4.14 Development of water conservation and sustainable fisheries programs that will contribute to the preservation of water body ecosystems. Implementing water purification and aquatic ecosystem monitoring systems on campus will ensure improved water quality and ecosystem conservation. Conducting educational activities aimed at protecting the oceans and marine ecosystems will raise awareness among students and staff about the importance of conserving aquatic resources and ecosystems.

4.15 Expected results include the development and implementation of programs to protect local ecosystems and biodiversity, which will ensure the conservation of natural resources and the sustainability of ecosystems. Assistance for scientific research aimed at the conservation of rare species and ecosystems will enhance knowledge and application of effective conservation methods. The creation of eco-parks and green spaces on campus will improve the ecological balance and quality of life on campus, while landscaping and implementing low-

impact landscaping principles will strengthen the sustainability of the university grounds.

4.16 Establishment of a system of transparent and fair university's governance that will ensure the credibility and effective functioning of the institution. Organizing training courses on human rights and civil liberties will raise the awareness of students and staff about the importance of justice and protection of rights. Ensuring fairness and equality for all students and staff in career development and assessment of achievements will create conditions for equal opportunities and personal growth for everyone.

4.17 Developing partnerships with universities, government agencies and businesses to jointly achieve sustainable development goals, which will provide access to new resources and opportunities. Organization of joint projects and research with international scientific organizations will strengthen scientific cooperation and allow the exchange of advanced knowledge. Involving students in global sustainable development initiatives will increase their involvement in important world processes. Establishing a student society focused on sustainable development will strengthen student leadership and energize the university community. Organization of community outreach projects will provide education and support for sustainable development at the local community level.