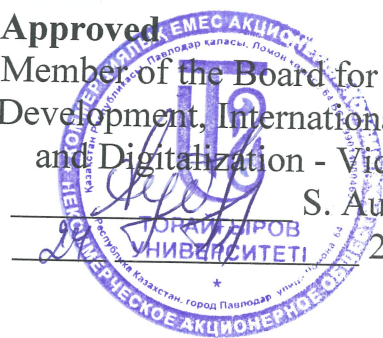




**Approved**  
Member of the Board for Strategic  
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2025 year



## **WATER CONSERVATION PROGRAM AND ITS IMPLEMENTATION**

**Toraigyrov University Non-Profit Joint-Stock Company**

**Pavlodar**

**2025**

## **1. General Provisions**

Toraighyrov University considers the rational use of water resources to be a priority area of environmental policy and sustainable development. The water conservation program is aimed at reducing water consumption, increasing the efficiency of its use, preventing water pollution, and fostering an environmental culture among students and staff.

The program is implemented in accordance with the principles of sustainable development, environmental legislation of the Republic of Kazakhstan, and the university's internal environmental policy.

## **2. Program Objective**

To create a system for the rational use of water resources on university campuses by implementing water-saving technologies, increasing the environmental responsibility of the university community, and implementing measures to reduce water consumption.

## **3. Key Objectives**

- Reducing drinking water consumption in all academic buildings and dormitories;
- Implementing modern water-saving technologies;
- Preventing leaks and wasteful water use;
- Improving the environmental literacy of students and staff;
- Developing a culture of responsible attitude toward water resources;
- Conducting regular monitoring of water consumption.

## **4. Feasibility and Necessity of Developing the Program**

The Water Resources Conservation Program at Toraigyrov University was developed to implement the principles of sustainable development, rational use of natural resources, and enhance the environmental responsibility of the university community.

The need to develop the Program is based on the following reasons.

### **4.1. Environmental Reasons**

**Rational Use of Water Resources.** Water is one of the most important natural resources necessary for the educational, scientific, and economic activities of the university. Reducing unsustainable water consumption contributes to the conservation of natural resources and reduces the impact on the environment.

**Ecosystem Preservation.** Responsible water consumption and the prevention of wastewater pollution contribute to the preservation of aquatic ecosystems, the maintenance of biodiversity, and the improvement of the regional environment.

**Reducing Negative Environmental Impact.** The implementation of water conservation measures reduces the consumption of natural resources and contributes to the achievement of the university's environmental goals.

### **4.2. Economic Reasons**

**Increasing the Efficiency of Resource Use.** Rational water use reduces the university's operating costs related to water supply and sanitation.

**Reduced infrastructure maintenance costs.** Timely detection and repair of leaks, modernization of plumbing equipment, and the introduction of water-saving technologies reduce the financial costs of maintaining utility systems.



### **4.3. Social Foundations**

Creating a comfortable educational environment. Ensuring a reliable and efficient water supply helps maintain sanitary and hygienic conditions in academic buildings, dormitories, and other university facilities.

Developing an environmental culture. The program promotes a responsible attitude among students, faculty, and staff toward the use of natural resources and the development of an environmentally sustainable lifestyle.

### **4.4. Scientific and Technological Foundations**

Implementation of modern technologies. The use of water-saving equipment, automated water metering systems, and regular monitoring enables effective water consumption management.

Development of scientific activity. The university supports research aimed at developing modern approaches to the rational use of water resources, environmental monitoring, and sustainable development.

### **4.5. Adaptation to Climate Change**

In the context of climate change, the need for rational use of water resources is increasing. Implementation of the program helps reduce the risk of inefficient water consumption, improve the sustainability of the university's infrastructure, and adapt to modern environmental challenges.

### **4.6. Environmental Education and Awareness**

An important component of the program is awareness-raising among students and staff. Organizing environmental events, lectures, seminars, and information campaigns helps increase environmental awareness and foster a culture of respect for water resources.

## **5. Water Conservation Targets**

The main target indicator for the implementation of the Program is:

- increasing the share of water-saving sanitary equipment in academic buildings and dormitories;
- reducing the number of emergency water leaks;
- conducting annual monitoring of water consumption in all university buildings;
- increasing the number of environmental events and information campaigns dedicated to the rational use of water resources.
- expanding student and staff participation in the university's environmental initiatives.

Implementing water conservation measures will ensure rational water use, reduce the university's operating costs, increase the efficiency of engineering infrastructure management, improve the university's environmental performance, and contribute to the achievement of the Sustainable Development Goals.

Responsible for program implementation are the university's administrative and economic units, in conjunction with relevant structural units dealing with sustainable development and environmental protection.

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