

## **Water conservation program and its implementation Ilyas Zhansugurov Zhetysu University**

Rational use of water resources at Ilyas Zhansugurov Zhetysu University is a key task contributing to sustainable development, environmental protection and improving the quality of life of students and staff. The program is aimed at optimizing water consumption, improving its quality and awareness of respect for resources.

### **Program objectives**

Ensuring high-quality water supply: Ensure that students and staff have access to clean and safe drinking water that meets sanitary standards.

2. Optimization of water consumption: Reduce the total amount of water consumed without compromising the quality of services provided.

3. **Awareness raising:** To inform students and staff about the importance of rational use of water resources and methods of economy.

### **Main activities of the program**

#### **Assessment of the current state of the water supply system**

Definition: Conducting an analysis of the existing water supply infrastructure, including pipelines, pumping stations and filtration systems. This will help to identify shortcomings and modernization needs.

##### **Actions:**

- Conducting an audit of water supply systems for leaks and wear.
- Preparation of a report on the state of the systems, including recommendations for improvement.

#### **2. Installation of water meters**

**Definition:** Implementation of metering systems that will allow you to track the volume of water consumed in real time. This is necessary to analyze data and improve resource management.

##### **Actions:**

- Installation of individual water meters in each university building.
- Creation of a database for monitoring and analyzing water consumption.

**3. Introduction of water saving technologies** **Definition:** The use of modern technologies and devices that reduce water consumption in educational institutions.

##### **Actions:**

- Installation of water-saving nozzles on faucets and showers.
- The use of automatic water shut-off systems (for example, touch taps and monitoring systems).

#### **Training and informing users**

**Definition:** A program to raise awareness among students and staff about the rational use of water resources and conservation methods.

##### **Actions:**

- Conducting seminars and trainings on water conservation and sustainable resource management.

- Distribution of information materials (booklets, posters) about the importance of water conservation.

### **5. Development of an internal policy on water use Definition:**

Creation of documents regulating the use of water resources at the university. This will help establish rules and regulations for all departments.

#### **Actions:**

- Formulation of rules on the rational use of water for all departments.
- The introduction of consumption standards and savings practices, including responsibility for compliance with standards.

### **6. Performance monitoring and evaluation**

Definition: Regular review of program results to assess its effectiveness and identify opportunities for improvement.

#### **Actions:**

- Conducting periodic inspections of the condition of the water supply system.
- Assessment of progress in reducing water consumption and adaptation of the program based on the data and feedback received.

#### **Program implementation**

##### **Stage 1: Research and planning**

- Collecting data on the current state of water supply and water consumption.
- Identify the needs of the university and plan improvement activities.

##### **Stage 2: Installation of equipment**

- Purchase and installation of water meters and water-saving devices.
- Carrying out the necessary work to modernize existing systems.

##### **Stage 3: Education and awareness**

- Organization of training events for students and staff.
- Distribution of materials on the rational use of water.

##### **Stage 4: Monitoring and adjustment**

- Regular monitoring of the system status and analysis of the results.
- Making changes to the program based on the data and feedback received.

This water resources management program at Zhetysu University is aimed at creating an efficient and sustainable water supply system. The implementation of this program will not only reduce the cost of water supply, but also raise awareness among students and staff about the importance of caring for water. The program will be periodically reviewed to ensure its relevance and effectiveness, which will allow responding to changes in the university's needs and environmental conditions.

**Director of the department**

**for infrastructure development**



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