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«I APPROVE»
Vice-Rector V. Koikov

« 29 » 05 2024

**The program of conservation of water resources of the
NJSC "Astana Medical University"**

Astana, 2024



Passport of the Water Conservation Program

Full name of the organization	Non-commercial Joint-Stock Company "Astana Medical University"
The basis for the development of the program	<ol style="list-style-type: none">1. Environmental grounds<ul style="list-style-type: none">• Conservation of biodiversity.• Conservation of ecosystem services.2. Economic grounds<ul style="list-style-type: none">• Efficient use of resources.• Loss prevention.3. Social grounds<ul style="list-style-type: none">• Public health.• Social equality.4. Scientific and technological foundations<ul style="list-style-type: none">• Scientific research.• Technological innovations.5. Climate change<ul style="list-style-type: none">• Adaptation to climate change.6. Education and awareness<ul style="list-style-type: none">• Awareness raising.
The purpose of the program	Defining specific goals to reduce water consumption, improve water quality and protect reservoirs.
The task of the program	Development of specific measures to achieve the set goals.
Program targets	A decrease in the volume of water resources consumed under comparable conditions with an annual decrease in such volumes by at least one percent compared to the level of the previous year.
Deadlines for the implementation of the program.	2024 – 2029
Planned results of the program implementation.	A decrease in the volume of consumed energy resources in comparable conditions with an annual decrease in such volumes by at least one percent compared to the previous year. Raising the level of culture in the field of water conservation.



1. The expediency and necessity of developing a Program.

The program is aimed at solving the problems of water conservation. The necessity for the development of the program are:

1. Environmental grounds

- Conservation of biodiversity: Water resources play a key role in maintaining ecosystems. Reducing pollution and improving the condition of reservoirs contributes to the conservation of flora and fauna.

- Conservation of ecosystem services: Waters provide ecosystem services such as climate regulation, maintenance of biological cycles, filtration and purification, which are critical for ecosystem health.

2. Economic grounds

- Efficient use of resources: The rational use of water resources reduces the cost of water supply and improves the economic efficiency of industries such as agriculture, industry and energy.

- Loss prevention: Pollution and depletion of water resources can lead to significant economic losses, including the cost of water purification, reduced productivity and damage to public health.

3. Social grounds

- Public health: Clean water is necessary to maintain public health and prevent diseases associated with contaminated water.

- Social equality: Ensuring equal access to quality water helps reduce social inequalities and promotes sustainable community development.

4. Scientific and technological foundations

- Scientific research: Scientific research helps to understand the impact of various factors on the state of water resources and to develop effective measures for their protection.

- Technological innovations: Modern technologies allow for more efficient management of water resources, including water purification, monitoring and forecasting.

5. Climate change

- Adaptation to climate change: Climate change can affect the availability and quality of water resources. The program should include measures to adapt and mitigate the effects of climate change.

6. Education and awareness

Awareness-raising: The program should include components to raise awareness and educate the public about the importance of conserving water resources and how to use them effectively.

2. The purpose and objectives of the Program.

The purpose of the Program is to reduce budget expenditures on energy supply in the NJSC "AMU".


The main objective of the Program is the implementation of a set of measures that will lead to the achievement of the set goals.

To achieve the set goals, the Program provides for activities aimed at achieving certain values of the target indicators.

3. The values of targets in the field of water conservation.

The main target indicator for the implementation of the Program is to reduce the volume of water consumed in comparable conditions by at least one percent compared to the level of the previous year.

The fulfillment of the targets as a result of the implementation of the program (in kind and in value terms) is recorded annually in the forms of the actual fulfillment of the targets, both for


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the year and with an increasing total, after summing up the results of the activities.

Conservation of water resources is important for sustainable development and ecosystem protection. The application of a set of measures for water resources management will help not only reduce water consumption, but also improve the state of water resources and the environment in general.

4. List and description of program activities.

№	Events	Deadlines
Assessment of the current state and consumption of water		
1	Audit of water use: Analysis of current water consumption and identification of the main sources of its use (domestic, industrial, agriculture).	4th quarter 2024
2	Resource mapping: Identification of available water resources, their condition and potential risks.	4th quarter 2024
Development and implementation of measures		
1	Technical solutions: Installation of water reuse systems, modernization of plumbing equipment, installation of water-saving devices.	2nd quarter 2025
2	Processes and technologies: Optimization of water use in production processes, introduction of wastewater disposal and purification technologies.	3rd quarter 2025
3	Education and training: Educating the public or employees on water conservation methods and best water use practices.	4th quarter 2025
4	Leak reduction: Regular inspection and repair of pipelines to prevent leaks.	Regularly
5	Efficient irrigation: The use of drip irrigation systems and optimization of water consumption.	Regularly
6	Installation of water-saving devices: Aerators for faucets, shower heads.	4th quarter 2024
Informing and engaging		
1	Education: Conducting information campaigns on the importance of water conservation.	2nd quarter 2025
2	Incentives and rewards: Implementation of incentive programs for efficient use of water and compliance with standards.	1st quarter 2026
Monitoring and evaluation of effectiveness		
1	Data collection: Continuous monitoring of water consumption and the state of water resources.	Regularly
2	Evaluation of results: Regular analysis of data and evaluation of the effectiveness of measures taken.	Regularly
Correction and improvement		
1	Problem analysis: Identification of problems and shortcomings in the current program.	Regularly
2	Adjustment of measures: Making changes and improvements to the strategy based on the data and feedback received.	Regularly

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4. Deadlines for the implementation of the Program.

The implementation of the Program's activities is planned for 2024-2029.

5. Monitoring the progress of the Program.

The responsibility for compliance with the established deadlines for the implementation of program activities and the achievement of specific results rests with the Vice-Rector/Managing Director of NJSC "AMU".