



Water Efficient Appliances Usage Program

Chirchik State Pedagogical University

At Chirchik State Pedagogical University, a comprehensive “Water Efficient Appliances Usage Program” has been developed and implemented to ensure the rational use of water resources, minimize water waste, and promote environmental sustainability across the campus. This program focuses on applying modern water-saving technologies throughout all academic buildings, dormitories, and administrative facilities of the university.

1. Current Condition

- University buildings are equipped with water-efficient taps, low-flow toilets, and automatic water supply fixtures.
- All newly constructed buildings are required to install energy- and water-saving sanitary equipment.
- Automatic closing (sensor) taps and dual-flush systems have been installed to reduce water waste.
- Water-efficient pumping systems and energy-saving underground water supply units are in operation.

2. Program Objectives

- Reduce and rationalize water consumption;
- Promote water-use awareness and culture among staff and students;
- Widely implement energy- and water-efficient sanitary devices;
- Support environmental protection and reinforce the “Green Campus” principles.

3. Implemented Measures

1. Installation of sensor-operated taps and automatic water supply systems.
2. Introduction of dual-flush toilet systems for controlled water usage.
3. Replacement of outdated high-consumption fixtures with modern low-flow models.
4. Reduction of water consumption by approximately 25–30% through automatic shut-off faucets.
5. Organization of seminars and training sessions promoting water conservation practices for staff and students.
6. Installation of leakage detection sensors in restrooms and utility areas.

4. Results

- Average water consumption on campus decreased by 20–25%.
- Utility costs were reduced due to minimized water waste.
- A sustainable environmental awareness was developed among university students and staff.
- The overall rate of water-efficient appliances reached **100%**.

5. Water Efficient Appliances Statistics

Appliance	Total Number	Total Number of Water-Efficient Appliances	Percentage
Toilet	611	611	100%
Urinal	73	73	100%
Sink	656	656	100%
Average Percentage			100%

6. Future Plans

- Install automatic digital water metering systems in all university buildings;
- Introduce a digital monitoring platform for real-time water consumption tracking;
- Expand the application of water-efficient technologies in dormitory and laboratory areas.

Conclusion:

The “Water Efficient Appliances Usage Program” at Chirchik State Pedagogical University plays a vital role in conserving water resources, ensuring environmental safety, and promoting the practical use of green technologies. Through this initiative, the university has positioned itself among the leading higher education institutions in Uzbekistan committed to sustainable water management and eco-friendly campus development.