

University : Al-Mustaqbal University College  
 Country : Iraq  
 Web Address : <https://uomus.edu.iq/en/default.aspx>

6.4.2: Does your university as a body measure the reuse of water across the university?

	
<p>Greywater treating unit</p>	<p>Treated greywater is mainly used in plant watering</p>
	
<p>Water treatment to produce pure water for medical purposes</p>	<p>Pure water is used in the medical laboratories</p>
	
<p>Water treatment to produce drinking water</p>	<p>Water dispensers for students</p>
<p><b>Consumption of treated water (Al-Mustaqbal University College, Iraq)</b></p>	



1. [Water conservation policy](#): The water conservation policy aims on creating a water neutral campus by the year 2030.
2. Greywater and rainwater are gathered into ponds or earth tanks. Afterwards, the water is pumped into treating stations to obtain potable water. The treated water is then accumulated into tanks then pumped to the college's water system. Most of the treated water is used to irrigate the green areas that are spread across the college's area. Flushing basins and fire sprinkler systems use the treated greywater as their main water supply.
3. Medical laboratories require pure water for their daily use. Al-Mustaqbal University College has installed two units for producing pure water from the treated greywater. These units can produce pure water or any required water for medical and drinking purposes.
4. Treated water is used in multiple functions within the campus. It used for cleaning purposes, flush basins, fire sprinkler systems and irrigation.

Wastewater in Al-Mustaqbal University College comes in two types, Greywater, and black water. These types of wastewater go into extensive treatment processes that enables its re-consumption. The treated water is used as follows:

### **1. CLEANING PURPOSES**

The Engineering unit uses the treated water in all its cleaning functions. Cleaning the parking areas, pathways and lecture halls all use treated water.

### **2. FIRE SPRINKLER SYSTEMS**

Buildings in Al-Mustaqbal University College are fitted with fire extinguishing systems. These systems are water sprinkler systems that are fitted to the ceilings along with fire hoses fitted on some walls of each building. The majority of these fire extinguishing systems use treated water as their water source.

### **3. IRRIGATION**

Al-Mustaqbal University College is expanding every year. The green areas saw its fair share of that expansion. Due to Iraq's harsh environment, green areas require constant irrigation. The Engineering Unit has been successful in using sprinkler systems as well as dripping irrigation techniques to achieve efficient irrigation with the least amount of water. Treated wastewater is the main source of irrigation water.



#### **4. FLUSHING WATER BASINS**

Most of the water used in the flushing basins in the washrooms is treated water. Treated water is pumped into tanks and then the water is pumped into these flushing basins.

#### **5. R/O WATER**

A number of R/O water purification units have been installed in the campus. These units provide drinking water for both staff and students. Water fountains that function using solar energy are used throughout the buildings of the college.