



## Water Conservation Program Implementation



Rain Harvesting Site, IAU, KSA



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Government Water Meter to measure  
the water consumption in IAU



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**Brakish water well Reverse osmosis desalination, IAU, KSA**



**Save Water slogan mentioned in IAU washrooms and Cafeterias**



### Water Efficient Appliances Usage (e.g. hand washing taps, toilet flush, etc.)



Water Efficient Appliances Usage (IAU, KSA)

#### Description:

The water used in campus is totally produced from RO on campus system that intake from ground water wells.

The produced water is mixed with brackish water to increase the amount of water used for washing and flushing toilets.

Some examples of water conservation measures include, low flush WC's and low flow taps.

Appliance	Total Number	Total number water Efficient appliances	Percentage
Toilet	250	210	70%
Wasteful	150	100	66%
Etc.	...	...	...
		<b>Average Percentage</b>	<b>63%</b>

#### Description:

1. Rainwater is collected and channeled across buildings and ends at these reservoirs. This collected rainwater is then used for watering plants.
2. The water used in Imam Abdulrahman Bin Faisal University is mainly collected from in-campus wells that have a high salinity due proximity to the Arabian gulf (approximately 500 meters). The Arabian Gulfs salinity is extremely high for desalination use (Salinity = 40%) while the ground water well salinity is around 10%.
3. The reverse osmosis (RO) produces totally = 1600 m<sup>3</sup>/day that is being used for drinking. About 2600 m<sup>3</sup>/day is also produced and mixed with treated wastewater to be used for on campus greening and irrigation. The final TDS of pipe network water for use 300-600
4. The pipes are periodically inspected by University maintenance team for any leaks to protect the water wastage.



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5. IAU washrooms and Cafeterias displays slogan “Don’t waste water, Water is precious and Save water”.  
Thereby promoting water conservation.

Thus, at the current stage water tanks and reservoirs are the systematic and formalized support for water conservation in Imam Abdulrahman Bin Faisal University, where IAU is able to conserve more than 50% water each year.

**We at IAU are very sensitive towards the use to water since we have too little rain in this region. IAU do not wish to miss out even this rainwater and hence these reservoirs play a crucial role in rainwater collection. Thus, water conservation program is well established and systematic.**