



Water Conservation Policy at AASTMT

Background

Egypt has been suffering from severe water scarcity in recent years. Uneven water distribution, misuse of water resources and inefficient irrigation techniques are some of the major factors playing havoc with water security in the country. Egypt has only 20 cubic meters per person of internal renewable freshwater resources, and as a result, the country relies heavily on the Nile River for its main source of water. The River Nile is the backbone of Egypt's industrial and agricultural sector and is the primary source of drinking water for the population. Rising populations and rapid economic development in the countries of the Nile Basin, pollution and environmental degradation are decreasing water availability in the country. Egypt is facing an annual water deficit of around 7 billion cubic meters. In fact, United Nations is already warning that Egypt could run out of water by the year 2025.

AASTMT is taking steps to reduce our consumption of potable water. Through solutions like those below we are using this precious resource more efficiently to protect water for future generations.

• Cutting Back on Car Washing

AASTMT use many vehicles on and off campus, and those vehicles need to be washed, but not frequently. AASTMT have cut back on car washing in their motor pools to save water.

• Using Campus Resources

Access to creeks and wells on CAMPUS land. Almost 55 percent of water used for irrigation comes from water sourced on AASTMT's own land.

• Installing Water sprays

AASTMT used water saving devices like sprayers on water TAPS in the new buildings. This measure alone has helped to reduce water usage in these buildings by over 30 percent.

• A New Low Flow Standard

AASTMT management decided a new standard low flow showerheads and faucets, as well as low water volume toilets and urinals to reduce the consumption of potable water.



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- **Dual Flush Toilets**

In addition to low flow toilets, AASTMT also using dual flush toilets, which allow toilets to use less water unless deemed necessary by their users.

- **Educating Students**

At AAST, students arriving on campus will learn about water conservation in their orientation meetings, and the campus offers dorm room usage audits as well.

- **Going Tray less**

The main campus-dining hall conserves about 100 m³ of water annually by going “trayless.” Each avoided tray saves about 3 cups of water! Of water.

- **Leak Detection Technology**

New buildings employ water conservation technology that includes leak detection, allowing them to identify and correct leaks that exist on campus.

- **Updated Laundry Rooms**

AASTMT upgrading to high efficiency front loading washers, and becoming even more energy efficient by using technology that allows them to monitor the status of the machines.

- **Leak Reporting**

Students, faculty and staff are encouraged to report any leaks that they see. Doing so can alert the maintenance staff to undiscovered sources of water waste that can be resolved easily.

- **Water Use Monitoring**

Enhancing awareness of water usage can help conservation efforts, making those who consume water more careful in their usage. AASTMT have shared water use data within the CUMBUS to spotlight conservation of water.

- **Updated Facilities Equipment**

Water-cooled compressors, single pass chillers, cooling towers, and more equipment often use water, and not always efficiently. AASTMT replacing water-cooled compressors with air-cooled ones.

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- **Hand Sanitizer Installation**

AASTMT have cut down on water used for sanitation purposes by installing hand sanitizers in bathrooms and other common areas. For quick sanitation purposes, a full hand wash using water is not needed, and alcohol-based sanitizer can be used instead.

- **Water Coolers and Taps**

Water coolers allow students, faculty and staff to fill up reusable containers instead of buying bottled water. AASTMT have employed the use of units that dispense filtered water.

Revised and Approved by

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Alexandria in 23 September 2020

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