

Off-campus water conservation support

EJUST designed and developed a wastewater treatment unit (200 m³/d), namely down-flow hanging sponge, at Borg El Arab City, Alexandria Governorate. This unit is located near the EJUST campus. The unit is used to process/treat the wastewater to be reused in irrigation without consuming energy nor mechanical ventilation.



Down-flow hanging sponge (DHS) unit used for wastewater treatment to irrigate landscaping in Borg El Arab City, Alexandria Governorate.



<https://ejust.edu.eg/ece/down-flow-hanging-sponge-unit-dhs-project-in-borg-el-arab-city-alexandria-governorate/>

Following the successfulness of 200 m³/d DHS at Borg El Arab City, another unit is under construction with a capacity of 400 m³/d to allow water reuse at Eladel village, Senores Town – El-Fayoum Governorate-Egypt.



Construction of Down-flow hanging sponge unit with a capacity = 400 m³/d to allow water reuse at Eladel village, Senores Town – El-Fayoum Governorate-Egypt.

<https://ejust.edu.eg/eece/down-flow-hanging-sponge-unit-dhs-project-in-el-adel-village-senoris-fayoum-governorate/>

EJUST conduct workshops to enhance the public awareness to conserve water, such as simply taking shorter showers, and avoid leaving the water running while shaving or brushing teeth. The meetings/workshops also illustrate how to report any leaky or broken water fixtures (toilets, sinks, pipes, etc.). Questionnaires include some statements such as “Why is water conservation important?, Are you practical about the times in which you choose to shower? Are you going to be exercising later today? Maybe you should hold off on showering until afterwards”



Periodic workshops conducted by EJUST to enhance the public awareness for water conservation

EJUST plans to change bathroom fixtures to more water efficient or even water free models, the installation of rainwater cisterns which could be used for irrigation, and changes in landscaping to use less water. Moreover, storm-water retention system would be used to sustain the irrigation needs of the campus for three weeks.