

SDG6 : Clean water and sanitation

Access to water and sanitation are basic human rights and are critical sustainable development challenges. Pharos university is involved in the following activities

6.1. University management Plan for water conservation

Pharos University is implementing a plan for the re-use of water in its premises.

- (a) wastewater and as per the records of the university administration, wastewater from washing rooms, kitchens, and laboratories are collected and channeled to a specialized company to manage the recycling process and get rid of toxic material in a safe way.
- (b) Reuse of water: The university manage a process for rainwater collection and fresh water disposed from air conditions. Both water sources are channeled and stored in a 15m³ water tank for reuse in irrigation of the green areas that reach about 21000 m² of landscape, and the play green ground. With this amount of water, the green areas in Pharos University is expected to increase by another 1000 m² (27 green plots)
- (c) Drinking water: Drinking water quality is maintained at the university premises by installing 3 -level filters at the source inlet to purify drinking water before use by university members.

6.2. Graduation projects:

Identifying and contributing to solving problems related to clean water and sanitation is one of the concerns of Pharos University. The Faculty of Engineering is conducting several graduation projects for the Academic year 2018 as follows:

- Experimental analysis of a multi-stage solar distiller using an evacuated parabolic solar trough with a solar tracker
- Seawater desalination
- Retrofit of RO desalination plant capacity from 240 m³/day to 600m³/day Using pressure exchanger
- Design of Thermo Electric Atmospheric Water Generator (TEAWG)
- Experimental analysis of a multi-stage solar distiller using an evacuated parabolic solar trough with a solar tracker

6.2. Conferences:

The Faculty of legal Studies and International Relations organized a workshop on “ **Legal and Political Perspectives on Egypt’s Water Security**” on the academic year 2018-2019. The conference addressed a number of major issues; the legal and political perspectives on Egypt’s Water Security, making a reference to the Grand Ethiopian Renaissance Dam (Al Nahda Dam) (GERD) and its effects on Egypt’s water supply. The conference also tackled the technical and statistical aspects of the issue, the GERD’s negative impact on Egypt’s Nile water share and the peaceful plan of action should be taken to maintain Egypt’s water security. It is worth mentioning that the conference aims at assessing Egypt’s situation in regard to water allocations, the factors that could impact this situation, putting a strategy to maintain and enhance Egypt’s water resources, shedding light on the government policy in this respect and exchanging opinions of the best way to face these challenges and providing the legal documents that support Egypt’s situation.

[Conferenceshttps://www.pua.edu.eg/legal-and-political-perspectives-on-egypts-water-security/](https://www.pua.edu.eg/legal-and-political-perspectives-on-egypts-water-security/)

6.3. Awareness Brochures

The Faculty of Pharmacy produces several brochures for awareness about water issues. Below are two Figures showing these brochures

