

6.4.2 Measure the reuse of water across the university

1. The irrigated water supplied to the fish farm at the Agriculture Experimental Research Station of the Faculty of Agriculture is recycled to irrigate the crops, vegetables, and fruits of the land farm. The recycled water is rich with natural fertilizers and enhances the crops production.
2. In addition, the water recycling in Fish Aquaculture of the Faculty of Agriculture, Alexandria University: The watersewage of the Aquaculture of the Faculty of Agriculture, Alexandria University which consist of eight ponds (one acre and quarter/each) in Abis region. Alexandria University used the recycled water for crops culturing in the adjacent agriculture research center in Abis.
3. **Elements of Green Building Implementation as Reflected in all new construction and renovation policies in the new buildings in Abis campus:**
 - The area of the project is 160 acres, a general site for educational buildings, and 120 acres are complementary activities. The percentage of green areas and lake is about 52% in addition to 25% streets and lanes.
 - Water-saving plots are used, which will reduce water consumption by about 30%. The sewage water will be treated and reused in the irrigation of green areas in the project.
 - Wastewater will be treated and reused to irrigate green areas in the project.
 - Rainwater is collected in the main lake and used for irrigation.
 - The use of plants with few water rationed plants to reduce irrigation needs in addition to absorbing quantities of rainwater to reduce the severity of rain spells.
4. An amount of water of 967,694.74 is consumed by all faculties and institutes affiliated with the Alexandria University, of which the amount of sewage is 870,925,266 m³, which is lifted through a group of lifting stations to be treated through treatment stations affiliated with the Alexandria Sanitation Company.
 - **Secondary biological treatment**, where solid waste is separated from liquid waste.
 - **Treated water**: As for the water resulting from first treatment, it is reused within the New Delta Project (the value of the reused water for Alexandria University represents 870,925.266 m³).
 - **The Tertiary treatment** for use in land reclamation with a design capacity of 7.3 million m³, include 1.7 million cubic meters of treated wastewater form the secondary treatment.



The water sewage of the Aquaculture of the Faculty of Agriculture (Alexandria University, Egypt)
 The irrigated water supplied to the fish farm at the Agriculture Experimental Research Station of the Faculty of Agriculture is recycled to irrigate the crops, vegetables, and fruits of the land farm.



The sewage water will be treated and reused in the irrigation of green areas in the project (Alexandria University)



Reclaiming 800 thousand acres in the new delta using treated water from sewage