

6.5.3 water conservation off campus

Integrated strategy Project for rainwater management in Alexandria Governorate in cooperation with Alexandria University

Remote sensing technology was used to know the current values of Rain and assess the current situation with the help of satellites. This is done with the help of the following artificial satellites:

-TRMM and GPM are two of the NASA satellites. (Administration National Aeronautics and Space Administration, United States of America)

- NOAA (National Oceanic, Atmospheric, and Space Administration, United States of America)

- NCEI (National Center for Environmental Information in the United States of America)

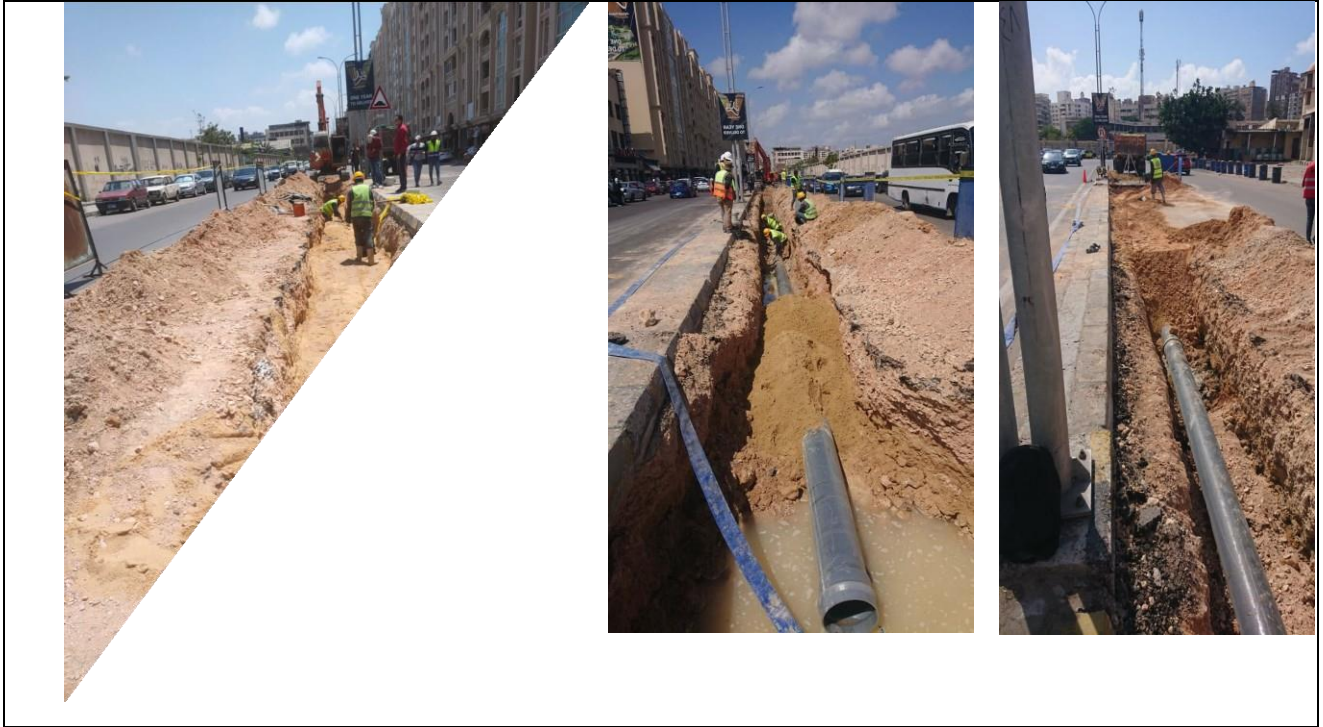
Proposed rain management strategy

A separate network will be created to drain rainwater for the nearest body of water for areas close to the body of water. The first area is the Corniche, where rainwater is collected and discharging it into marine estuaries. The second area is on both sides of the Mahmoudiyah and Beheira axis near the airport. The rainwater is collected and part of it is drained on the canal and the other part on the airport lake. In the third stage of the project, the two projects on the airport lake to exploit rainwater will be linked to the New Delta project. The rainwater will be used to irrigate the crops, vegetables, and fruits in the New Delta.





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Before performing the integrated strategy project



After performing the integrated strategy project
Mahmoudiyah Axis Project before and after performing the project

- The Center of Excellence for Water is organizing a training program for scholarship students. This training is conducted in collaboration between the Water Excellence Center at Alexandria University and EPROM Company to provide a course for a group of students from the Water Excellence Center. This initiative reflects Alexandria University's commitment to equipping its students with practical skills related to water management, ensuring they possess the competencies needed by the business sector while aligning their studies with labor market requirements. The Center of Excellence for Water at Alexandria University has organized a training program for students in the Water Excellence Center Scholarship and the Civil and Environmental Engineering Program. Alexandria University, EPROM Company, and the students are participating in the following two training programs:
 - Water Treatment for Industrial Applications
 - Wastewater Plant Operations and Troubleshooting.
- Evaluate the effectiveness of water conservation programs by leveraging data analysis tools and feedback systems to assess performance and outcomes.

- By integrating ICT into water management, university campus can promote sustainability, reduce water waste, and ensure the reliable supply of high-quality water. These systems not only improve efficiency but also support long-term environmental and financial goals.
- Alexandria University is involved in an off-campus project for canal lining to save about 5 billion cubic meters of water, which is wasted and lost in the water network along the course of the Nile from water resources. This project helps in Increasing the area of the agricultural area and achieving high productivity of crops in addition to preserving irrigation water from contamination

