

6.5.3 Off-Campus Water Conservation Support

2023–2024

AASTMT provides off-campus water conservation support by partnering with local authorities, government bodies, and environmental organizations to implement large-scale water management and waste treatment projects. These initiatives support Clean Water and Sanitation by addressing issues such as water pollution, groundwater protection, and wastewater treatment.

Cooperation with Government & Local Authorities to implement Large Scale Projects:

AASTMT and Ministry of Environment Strengthen Cooperation to Advance Environmental Sustainability and SDG 6

The AASTMT and Egypt's Ministry of Environment, led by Dr. Yasmine Fouad, held a coordination meeting to enhance joint efforts in environmental management, waste recycling, and climate change mitigation. The collaboration includes developing a Climate Change Information Center, initiatives to reduce carbon emissions and plastic waste, and training programs on medical and solid waste management. These efforts align with SDG 6 (Clean Water and Sanitation) by promoting pollution control, efficient resource use, and sustainable waste treatment systems, while supporting environmental education, innovation, and clean production within AASTMT's academic programs.



[AASTMT and Ministry of Environment Strengthen Cooperation to Advance Environmental Sustainability and SDG 6 on AASTMT webpage](#)

AASTMT and Alexandria Sanitation Company Enhance Cooperation on Water and Wastewater Management

Major General Mahmoud Nafea, Chairman of the Alexandria Sanitation and Wastewater Company, paid an official visit to Prof. Dr. Ismail Abdel Ghaffar, President of the Arab Academy for Science, Technology and Maritime Transport (AASTMT), to discuss cooperation in laboratories, scientific and technical training, and research support.

The meeting emphasized collaboration in wastewater treatment, water pollution control, sanitation services, and groundwater protection, as well as applying outcomes from the recent conference on the Sustainability of the National Water and Sanitation Industry. Discussions highlighted the importance of localizing technologies, advancing effluent treatment, addressing challenges in industrial wastewater, and promoting water resource management.

Both sides stressed the role of research, innovation, and smart technologies in improving wastewater systems, enhancing efficiency, and supporting sustainable water supply and sanitation. The visit concluded with an exchange of commemorative shields.



[AASTMT and Alexandria Sanitation Company Enhance Cooperation on Water and Wastewater Management](#) on AASTMT webpage

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AASTMT and German Partners Hold Workshop on Waste Management, Sanitation, and Water Sustainability

Dr. Manal Awad, Minister of Local Development, and Vice Admiral Ahmed Khaled, Governor of Alexandria, participated in a workshop hosted by the in cooperation with German partners to discuss new approaches in waste management, wastewater treatment, and sanitation services. The event focused on applying Extended Producer Responsibility (EPR) standards, 2023-2024

advancing solid waste and sludge management, and implementing integrated projects in stormwater control, wastewater reuse, and pollution reduction. Examples included Alexandria's integrated stormwater management strategy, the Nile sanitary landfill, and the sludge reduction project using anaerobic digestion to enhance treatment efficiency. Dr. Awad noted that since 2019, over 25 billion EGP has been invested nationwide in solid waste and sanitation infrastructure, alongside efforts to improve human capacity and introduce innovative solutions such as the Smart Waste Tool, already applied in Alexandria and Dakahlia. The workshop highlighted the importance of international cooperation, technology transfer, and research partnerships in achieving sustainable water resource management, sanitation, and climate change resilience.



[AASTMT and German Partners Hold Workshop on Waste Management, Sanitation, and Water Sustainability on AASTMT webpage](#)

AASTMT Supports SDG 6 Through Sanitary Landfills and Pollution Control Across Egypt

In line with SDG 6, the AASTMT has successfully overseen the construction and commissioning of 23 sanitary landfills for solid waste management across 16 Egyptian governorates. These projects play a vital role in pollution control, preventing the leakage of waste into groundwater and surface water sources, thereby protecting drinking water quality, reducing water contamination, and improving sanitation services. By implementing safe waste disposal practices and strengthening local capacity, the initiative contributes to the sustainability of water resources management and ensures that communities are shielded from the risks of water pollution and public health hazards. This effort reflects AASTMT's commitment to supporting integrated waste and water management systems, advancing environmental sustainability, and fostering solutions that safeguard water quality, mitigate climate change impacts, and uphold Egypt's Vision 2030.



[AASTMT Supports SDG 6 Through Sanitary Landfills and Pollution Control Across Egypt](#)

[AASTMT Supports SDG 6 Through Sanitary Landfills and Pollution Control Across Egypt](#) on AASTMT webpage

AASTMT Supports the Handover of a New Sanitary Landfill Cell in Damietta to Advance Sustainable Waste Management

As part of Egypt's efforts to enhance waste management infrastructure, the Ministries of Environment and Local Development handed over a new sanitary landfill cell in Abu Griada, Damietta. The project was supervised by a joint committee including the AASTMT, the Arab Organization for Industrialization, and the Ministry of Defense. The new 7-feddan facility, costing EGP 45 million, supports safe waste disposal, reduces pollution and harmful emissions, and aligns with SDG 6 on clean water and sanitation. Additionally, an integrated waste treatment and recycling complex covering 64 feddans was completed with total investments of EGP 146 million, promoting sustainable environmental management in Damietta.



[AASTMT Supports the Handover of a New Sanitary Landfill Cell in Damietta to Advance Sustainable Waste Management](#) on AASTMT webpage

AASTMT Supports the Handover of a New Sanitary Landfill Cell in Suhag to Advance Sustainable Waste Management

The Ministries of Environment and Local Development, in cooperation with the Arab Academy for Science, Technology and Maritime Transport (AASTMT), handed over a new sanitary landfill in Juhayna, Sohag, worth EGP 60 million. The 10-feddan facility ensures safe waste disposal and protection of soil and groundwater, aligning with SDG 6. Minister Yasmine Fouad highlighted the importance of environmental safety, while Minister Manal Awad confirmed total investments of EGP 230 million in Sohag's integrated waste management system to enhance sustainability and public health.



[*AASTMT Supports the Handover of a New Sanitary Landfill Cell in Suhaq to Advance Sustainable Waste Management*](#)

AASTMT and GAHAR Partner to Advance Healthcare Quality, Sanitation Standards, and Sustainable Development

The General Authority for Healthcare Accreditation and Regulation (GAHAR) and the Arab Academy for Science, Technology and Maritime Transport (AASTMT) signed a cooperation protocol to build the capacities of medical professionals and support healthcare facilities accreditation. The initiative reflects Egypt's commitment to sustainable development and aligns with both SDG 3 (Good Health and Well-Being) and SDG 6 (Clean Water and Sanitation).

Through this partnership, trainees will be equipped to implement quality, safety, and sanitation standards in healthcare facilities, ensuring proper wastewater management, hygiene practices, and pollution control within medical environments. The program also emphasizes water and sanitation infrastructure as part of improving patient safety and protecting water resources from contamination. Graduates will receive a professional diploma from AASTMT, followed by the Egyptian Certified Accreditation Professional (EGYCAP) credential from GAHAR, ensuring they can bridge the gap between theoretical standards and practical application of water, sanitation, and hygiene (WASH) practices in healthcare. This collaboration reinforces Egypt's Vision 2030, promoting sustainable healthcare, sanitation services, and water quality management as part of resilient and safe health systems.



[AASTMT and GAHAR Partner to Advance Healthcare Quality, Sanitation Standards, and Sustainable Development](#)
[AASTMT and GAHAR Partner to Advance Healthcare Quality, Sanitation Standards, and Sustainable Development](#)
on AASTMT webpage

AASTMT Supports Conference on Sustainability of the National Industry to Achieve SDG 6

The Governor of Alexandria and the Deputy Minister of Housing for Infrastructure Affairs inaugurated the Conference on Sustainability of the National Water and Wastewater Industry in Alexandria, with the participation of the EU Delegation, national water and sanitation authorities, and private sector partners.

The AASTMT took part in the event, showcasing its contributions to water resource management, wastewater treatment, desalination, and sanitation services. AASTMT emphasized its commitment to capacity building, research, and training programs that equip professionals with the skills needed to address water pollution, safe wastewater reuse, and sustainable sanitation practices in line with SDG 6.

The conference highlighted Egypt's progress in expanding desalination capacity, scaling up wastewater treatment plants to 18.8 million m³/day, and promoting reuse of treated water for irrigation, alongside efforts to reduce water losses and improve efficiency. These steps are central to achieving sustainable and resilient water and sanitation systems under Egypt Vision 2030.



[*AASTMT Supports Conference on Sustainability of the National Industry to Achieve SDG 6*](#)

AASTMT Partners in International Forum on AI Solutions for Climate-Smart Agriculture and Water Resource Management at COP29

The Arab Organization for Agricultural Development participated in the International Forum on Innovative AI Solutions for Climate-Smart Agriculture and Water Resource Management, hosted by the AASTMT in coordination with the League of Arab States. The forum was held on 19 November 2024 as part of COP29 in Baku, dedicated to food, agriculture, and water. AASTMT played a central role in organizing the forum, which addressed sustainable agriculture, water scarcity, irrigation efficiency, wastewater management, and food security in the face of climate change. Discussions highlighted how artificial intelligence, machine learning, and smart irrigation systems can optimize water allocation, predict extreme weather, and improve water productivity, directly supporting SDG 6 – Clean Water and Sanitation and climate resilience in the Arab region.



[*AASTMT Partners in International Forum on AI Solutions for Climate-Smart Agriculture and Water Resource Management at COP29*](#)

AASTMT and Port Said Governorate Discuss Future Cooperation to Support Sustainable Urban Development and SDG 6

During a visit to Port Said, Prof. Dr. Ismail Abdel Ghafar Ismail Farag, President of the AASTMT, met with Governor Major General Adel Al-Ghadban to explore new avenues of collaboration supporting Egypt's sustainable development goals. The meeting highlighted Port Said's rapid growth in infrastructure, industry, and environmental modernization, aligning with Egypt's national sustainability vision. Both sides discussed expanding cooperation in technical education, environmental management, and future initiatives that enhance urban infrastructure and water-related systems, supporting the objectives of SDG 6: Clean Water and Sanitation.



[AASTMT and Port Said Governorate Discuss Future Cooperation to Support Sustainable Urban Development and SDG 6 on AASTMT webpage](#)