

AU-AIP AFRICA WATER INVESTMENT SUMMIT 2025

13 - 15 August 2025
Cape Town, South Africa



AU AIP WATER INVESTMENT SUMMIT: PROJECT SHOWCASE

PROGRAMME/ PROJECT OVERVIEW	
Project name	Protection and Development of the coastal area from Sidi Saber up to Al Silsila in front of Bibliotheca Alexandrina_ Alexandria governorate
Location (Country, Region, Coordinates)	Egypt, Alexandria governorate
Sub-Sector (Water Supply, Sanitation, Irrigation, Flood Management..)	Shore Protection Authority (SPA)
Project description (Goals and expected outcomes)	<p>Brief Description:</p> <p>The project aims to protect approximately 4 kilometers of Alexandria coastline located to the east of the Eastern Harbour, a critically urban and economically vital zone. This Location is highly vulnerable to coastal erosion, sea level rise, and extreme weather events, and subjected to climate change. The proposed intervention is a hybrid coastal protection system, combining submerged breakwaters to dissipate wave energy offshore and strategic beach nourishment to rebuild and stabilize the eroded beach profiles.</p> <p>The submerged breakwaters will be carefully designed and positioned to allow water circulation and reduce environmental impacts, while providing effective protection against wave attack. The beach nourishment will be tailored to local sediment characteristics and hydrodynamic conditions to ensure long-term stability and integration with the natural coastal system.</p> <p>Objectives of the project:</p> <ul style="list-style-type: none"> •Enhance coastal resilience, along the eastern Alexandria shoreline by implementing sustainable protection measures that mitigate the impacts of sea level rise, storm surges, and long-term erosion. •Protect critical public infrastructure, including Alexandria Corniche Road, residential neighborhoods, and Protection of Egyptian heritage such as Alexandria bibliotheca, from coastal hazards. •Restore eroded beaches and enhance their recreational and ecological value through targeted sand nourishment, improving the living conditions and tourism appeal of the area. •Apply a hybrid coastal protection approach, combining hard (submerged breakwaters) and soft (beach nourishment) solutions to balance structural integrity with environmental preservation.
Technological details/ innovation	<ul style="list-style-type: none"> •Mobilize materials and equipment for offshore breakwater construction and beach fill operations. •Construct submerged breakwaters at selected locations based on the approved design.

AU-AIP AFRICA WATER INVESTMENT SUMMIT 2025

13 - 15 August 2025
Cape Town, South Africa



AU AIP WATER INVESTMENT SUMMIT: PROJECT SHOWCASE

	<ul style="list-style-type: none"> •Carry out sand nourishment using locally compatible sediment sources to restore the beach width and elevation. •Install coastal monitoring stations and ensure site safety and environmental compliance during works.
IMPLEMENTATION & KEY PLAYERS	
Lead institution	Ministry of Water Resources and Irrigation (MWRI)-The Egyptian Shore Protection Authority (SPA)
PROJECT TIMELINE & DEVELOPMENT STAGE	
Year of preparation, estimated start & end dates	<p>Project Duration Estimated Duration (months/years): 4 Years</p> <p>Phase 1: Feasibility Study and Detailed Design (Year 1)</p> <p>Phase 2: Construction and Implementation (Years 2–3)</p> <p>Phase 3: Monitoring, Maintenance, and Capacity Building (Year 4)</p>
PROJECT RATIONALE & STRATEGIC IMPORTANCE	
Alignment with national/regional plans, SDGs, Agenda 2063	<p>Relevant SDGs</p> <p>9-Industry, Innovation and Infrastructure 11-Sustainable Cities and Communities 13-Climate Action 14-Life Below Water 15-Life on Land</p>
FINANCIAL & INVESTMENT DETAILS	
Total project cost, currency	<p>Total Estimated Cost: 100,000,000 €</p> <p>included For study: 500,000 €</p>
CONTACT INFORMATION	
AIP Water	info@aipwater.org