



From National Priority to Investment Partnership

Egypt's Proposed Intensive Water Reuse Programme

Samaa El Baroudy - Director of Needs Planning
Strategic Management Sector Ministry of Water Resources and Irrigation, Egypt

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Egypt's water challenge—and the system we have built

Build on existing reuse, while identifying the next investments through evidence.

88.55 BCM/year

Annual water demand figure used in the draft.

65.35 BCM/year

Renewable water resources figure used in the draft.

23.2 BCM/year

Reuse already contributing to the water system.

The opportunity is not to start from zero.

Build on existing drainage networks and major treatment infrastructure.

Match water quality and salinity to safe, productive end uses.

Assess the full water, energy, food and ecosystem implications.

The national proposal: building an investment-ready pathway

A concept under development — implementation has not started

1 • UNDERSTAND THE RESOURCE

Map drainage-water sources and assess quantity, quality, salinity and variability.

2 • DESIGN THE INTEGRATED MODEL

Link treatment or desalination needs with energy, irrigation, crop choices and market opportunities.

3 • TEST FEASIBILITY

Assess lifecycle costs, environmental and social safeguards, responsibilities and financing options.

4 • PREPARE FOR FUTURE SCALE-UP

If approved and resourced, test a suitable model and use evidence to inform future investment decisions.

The pilot should test technical and financial assumptions before wider investment is considered.

Preparation will establish the evidence needed to judge whether the approach is viable and can be replicated.

A WEFE Nexus approach: measure the whole system

The right solution depends on the interaction between water, energy, food production and ecosystems.

WATER

Volume reused; quality fit for intended use

ENERGY

Energy demand, reliability and renewable options

FOOD

Crop choice, irrigation method and water productivity

ECOSYSTEMS

Soil and groundwater salinity; brine and drainage impacts

Set a baseline before financing and define measurable indicators, including relevant links to SDG 6.3.1 and 6.4.1.

Programme maturity: a defined scope, with financing still to secure

State what has been completed without implying that the programme is funded or implemented.

COMPLETED

Terms of Reference prepared for the National Programme for Intensive Water Reuse.

NEXT PREPARATION

Develop the pilot scope, validate the business model and define delivery arrangements.

FINANCING

Funding has not yet been secured; engagement with potential financing partners is ongoing.

The programme is an opportunity for financing partners to engage early in project preparation.

The proposed Terms of Reference cover source assessment, integrated WEF design, financial and institutional analysis, and field testing, subject to approvals and resources.

The partnership opportunity: pilot development and business model

The Ministry is engaging potential financing partners; no financing commitment is implied.

1 • PREPARE

Define pilot scope, site evidence, implementation responsibilities and safeguards.

2 • STRUCTURE

Develop and test the business model, including CAPEX, OPEX, affordability and O&M.

3 • FINANCE

Explore preparation support and financing pathways with international financial institutions and development partners.

Regional cooperation can broaden the effort

AWARe provides a platform for developing climate-resilient water adaptation solutions

REGIONAL COOPERATION

Egypt, Tunisia, Morocco and Jordan agreed to cooperate under the AWARe initiative.

PROJECT DEVELOPMENT

Egypt and Morocco, with UNDP, approached the Adaptation Fund during the initial development phase.

CURRENT STATUS

The proposal is under preparation. Financing approval has not been confirmed.

Complementary opportunity: regional collaboration can support shared learning and adaptation of water-reuse solutions to different local conditions.

This regional track complements, but does not replace, preparation of Egypt's national pilot.

Addressing the Session's Key Investment Questions 1/2

1. MATURITY

Terms of Reference completed. Next: develop and validate the pilot and business model; programme financing is not yet secured.

2. COUNTERPARTY

MWRI is the programme owner. The pilot's borrower/contracting entity, repayment responsibility and relevant track record remain to be defined with partners.

3. CASH FLOW

No cash-flow or repayment model has been approved. Preparation must assess potential offtake, savings, availability payments, subsidies or other fit-for-purpose options.

4. PUBLIC EXPOSURE

No guarantee or public-debt arrangement has been established. Requirements depend on the selected structure and must be assessed with the relevant authorities.

Addressing the Session's Key Investment Questions 1/2

Risk allocation, measurable outcomes and inclusion should be built into project design.

5. BINDING RISK

Potential critical risks include feedwater quality and salinity, energy costs and reliability, brine disposal, crop-market demand, O&M capacity, construction, currency and regulatory requirements.

6. WEFE RESULTS

Set a baseline before financing. Track water volume and quality reused, energy consumption, crop yield/water productivity, soil and groundwater salinity, and brine impacts. Align relevant indicators with SDG 6.3.1 and 6.4.1.

7. GENDER & YOUTH

The programme ToR includes assessment of barriers faced by smallholders, women and rural communities, and monitoring of gender inclusion and employment. Pilot design should define specific participation targets and indicators.

These are proposed preparation priorities; pilot-specific targets and risk allocation remain to be agreed.

What we would welcome from financing partners

A practical conversation about the next steps—not a request to endorse an unprepared project.

PROJECT PREPARATION

Could partners support the studies and technical work needed to develop a robust pilot?

FINANCIAL STRUCTURING

What evidence and business-model features are needed to assess financeability?

FUNDING PATHWAYS

Which instruments may fit: development finance, climate finance, blended finance or private participation?

We welcome early guidance on eligibility, preparation facilities, safeguards, risk allocation and the milestones required before a financing decision.

Our aim: a clearly prepared pilot, measurable results and a credible pathway to replication.

From water reuse to investable solutions

Turn a national water-security priority into a well-prepared pilot—supported by reliable evidence, a viable business model and appropriate financing partnerships.

Thank you

