

Soutenir la gestion de la demande en eau liée à la rareté de l'eau

Activity No. : N-W-EG-1

Kick-off meeting by video conference
2 September 2020, Cairo, Egypt



General context of the project and proposed actions

Presented by: Eng. Mohamed Salah Eldin
(Chairman - Asyut Water and Wastewater
Company ASWW)

Plan



**Water and
Environment Support**
in the ENI Southern Neighbourhood region

- Who are we?
- General context of the WES activity
- Objectives of the Activity
- Contribution of Asyut Water and Wastewater Company (ASWW)



Who are we?



**Water and
Environment Support**
in the ENI Southern Neighbourhood region

ASWWC is one of affiliated companies continued to HCWW

Water Coverage	99%
WTP	278 (11 B + 32 S + 235 W)
Water Networks	7000 Km
Water Production	761884 m3/day
Sold Water	497775 m3/day
NRW Ratio	34,6 %
L/C/D	163



General context of the WES activity



**Water and
Environment Support**
in the ENI Southern Neighbourhood region

Existing strategic frameworks in Egypt in support of Non-Revenue Water (NRW)

- ❖ Dividing Water Networks into DMAs.
- ❖ Continuous Monitoring for each DMAs Inlet or Outlet.
- ❖ Operating on each DMA by Loss Reduction Strategy.
- ❖ Applying required steps to reduce each type of Loss (Physical & Commercial).
- ❖ Leakage Detection and Recovery.
- ❖ Metering System Accuracy Modification.
- ❖ Cost Calculations.



Objectives of the mission and overview of the proposed actions



**Water and
Environment Support**
in the ENI Southern Neighbourhood region

- Investigate the situation of NRW management in a pilot city served by ASWWC and prepare its network to the next stage of implementation of distribution zones (DZs) and their subsequent division into District Metered Areas (DMAs)
- Implement and calibrate a hydraulic model for the network of the pilot city as a tool to provide valid support to move into the design stage and establishment of DMAs
- Introduce internationally recognised best practices (BPs) for improving NRW (including the design of DZs and the use of GIS to enable analysis of the geographical distribution of leakage).
- Build the capacity of the utility staff involved in the pilot area on the implementation of best practices for the management of NRW through on-the-job training and direct involvement in the implementation of the tasks with the support of non-key experts (field data analysis, water balancing, model calibration, and fixing anomalies between the results of the model calculations and the field data)
- Develop a manual documenting the proposed procedures for reducing NRW in Asyut city water network.



Overview of the Tasks

Inception Phase

Verification of GIS Maps and Customers database

Calibration of the hydraulic model for the network

Preliminary division of the network system into distribution zones (DZ) and design the zones.

Elaboration of procedures to reduce NRW and prepare the synthesis report.



Contribution of ASWWC



**Water and
Environment Support**
in the ENI Southern Neighbourhood region

- ❖ Establish the required concrete chambers
- ❖ Providing the required technical workers
- ❖ Providing all instrumentations of measuring and detecting leaks
- ❖ Repair of detected leaks
- ❖ Legalizing commercial losses
- ❖ Providing of GIS maps for the selected area as hard copy
- ❖ Providing the use of computers in the company only for hydraulic analysis work





**Water and
Environment Support**
in the ENI Southern Neighbourhood region

Thank you for your attention

