



المركز الوطني للاستشارات وتوزيع المياه
SONEDE
SOCIÉTÉ NATIONALE D'EXPLOITATION
ET DE DISTRIBUTION DES EAUX



Implemented by
KFW

PERFORMANCE IMPROVEMENT PROGRAM (PAP)



Programme
d'Amélioration
DES Performances



Implemented since: **January 2023.**



The (PAP) is a project by SONEDE aimed at improving the efficiency of the drinking water supply system.



Target Regions / Areas Covered: 7 districts (Kairouan, Kasserine, Sidi Bouzid, Gafsa, Medenine, Gabès, Tataouine).



General Objective:
Reduce water losses, optimize resource management, and improve service quality and continuity.



Specific Objectives and Key Interventions



1

600 km of network rehabilitated



2

75,000 water meters renewed



3

Real-time monitoring system (SCADA + 1,000 flow meters + data loggers + pressure sensors)



4

10 Million m³/year of water saved



5

4.1 Million citizens benefiting



6

Website launch and distribution of 1 million flyers

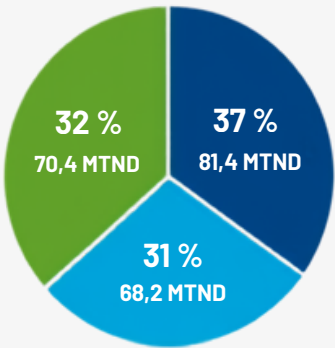
SONEDE

Together for
an efficient and sustainable water service

Financing, Components, and Results



FINANCING



KfW + EU Grants: 37% – 81.4 Million TND



Tunisian State: 32% – 70.4 Million TND



KfW Loan: 31% – 68.2 Million TND



Total: 220 Million TND



COMPONENTS(8)



1. Geographic Information System (GIS): Map and secure network asset data, locate leaks, and improve planning.



2. Leak Detection and Control (LDC / RDF): Identify visible and non-visible leaks and reduce physical losses.



3. District Metered Areas (DMA / Sectorization): Divide the network into hydraulic sectors to monitor flow rates and losses.



4. Meters and Service Connections: Improve consumption measurement and reduce commercial losses



5. HDPE Quality: Improve the quality, storage, laying, and durability of HDPE pipes.



6. Hydraulic network modeling: Evaluate network performance and validate DMA sectorization



7. Rehabilitation Works: Replace or rehabilitate leaking network sections to boost performance.



8. Communication: Inform, raise awareness, and ensure program visibility.



ACHIEVED RESULTS

7

Target Districts

8

Components

+100 km
of network
rehabilitated

26 564 m³/day

(3 232 000 m³/year)
m³/day of water saved
(Leak Detection: 11,146 m³/day;
Complaints: 9,433 m³/day;
Rehabilitation: 5,985 m³/day)

15 500 km
of network digitized

489
sectors
identified (DMA)

2 963 km
surveyed for leak
detection

2 221
leaks repaired
(Leak Detection:
1,376; User
Complaints: 854)

221 367
population equivalents served
(based on 120L/day/inhabitant)

0

HSSE (Health, Safety, Social &
Environment) accidents since
January 2023



SCET
TUNISIE

WMI
Water Management International

GIC

GITEC-IGIP
Consulting Group

ASPA
UTILITIES



**SONEDE – National Water
Exploitation and Distribution Utility**



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