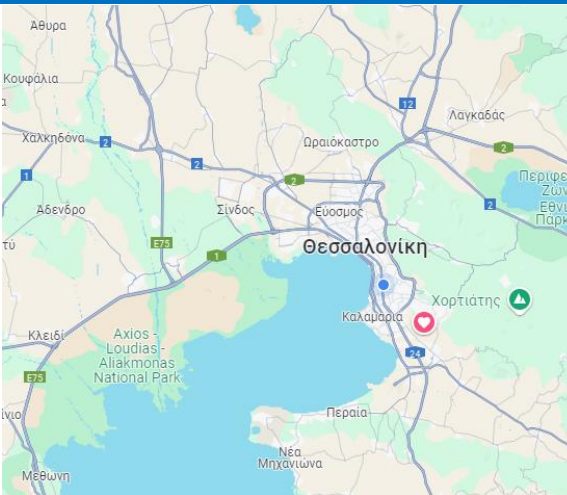


Use Case

TELEMETRY NETWORK FOR FLOW MEASUREMENT OF GOEV IN THE PLAINS OF THESSALONIKI - LAGADAS



Project Identity:

The project involved the procurement and installation of a new telemetry network for measuring **water level, velocity, and flow calculation** at various locations based on the needs of **GOEV**, as recorded. It includes both the supply and the installation and commissioning of the new equipment. The aim of this project is to **upgrade the irrigation systems of GOEV in the plains of Thessaloniki-Lagadas** and to improve the management and monitoring of water flows within the irrigation network. The expected results include **reducing water leaks, conserving water resources, and creating conditions for a more efficient and intelligent control of the irrigation network.**



SUMMARY

Type : 6 Telemetry Stations

Region : Thessaloniki Regional Unit

When : March 2025

Administrator:
GOEV of Thessaloniki - Lagadas plains

KEY FEATURES

No direct contact with water

Energy autonomy via photovoltaic generators

Extremely low maintenance requirements

Internet access

Measured Parameters

- Water level
- Surface water velocity
- Wetted cross-sectional area
- Water flow
- Measurement quality
- Battery voltage

Contact info
Thessaloniki :
16 Kanari str., 54644, Thessaloniki,
Makedonia, Hellas
Tel : +30 2310 946 126
Fax : +30 2310 947 005
Email : scientact@scientact.com.gr

Contact info
Athens :
507 Mesogion Ave., 15343,
Ag. Paraskevi, Attiki, Hellas
Tel : +30 210 67 28 585
Email : scientact@scientact.com.gr
Website : www.scientact.com.gr



EASTERN AND WESTERN SUPPLY CANALS

- A complete system for recording and teletransmission of measurements, model **HD33MT.4** from **Senseca Italy Srl [DELTA OHM S.r.l.] Italy**.
- Power supply system with a 20W solar panel.
- Protective cabinet, bases, scaffolding, programming, assembly, configuration, and installation.
- Dual radar system for measuring velocity, water level, and flow calculation, model **RQ-30** from **SOMMER Austria**.

KOUFALIA PUMPING STATION

- A complete system for recording and teletransmission of measurements, model **HD33MT.4** from **Senseca Italy Srl [DELTA OHM S.r.l.] Italy**.
- Power supply system with a 20W solar panel.
- Protective cabinet, bases, scaffolding, programming, assembly, configuration, and installation.
- Central control unit for sensor communication, flow calculation, and measurement recording, model **AgriFlo XCi** from **MACE [an In-Situ company] Australia**.



CHANNEL FROM LOUDIAS PUMPING STATION

- A complete system for recording and teletransmission of measurements, model **HD33MT.4** from **Senseca Italy Srl [DELTA OHM S.r.l.] Italy**.
- Power supply system with a 20W solar panel.
- Protective cabinet, bases, scaffolding, programming, assembly, configuration, and installation.
- Dual radar system for measuring velocity, water level, and flow calculation, model **SQ-R** from **Sommer GmbH Austria**.



CANAL - VARVARES LOCATION

- A complete system for recording and teletransmission of measurements, model **HD33MT.4** from **Senseca Italy Srl [DELTA OHM S.r.l.] Italy**.
- Power supply system with a 20W solar panel.
- Protective cabinet, bases, scaffolding, programming, assembly, configuration, and installation.
- Dual radar system for measuring velocity, water level, and flow calculation, model **RQ-30** from **Sommer Austria**.



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Email : scientact@scientact.com.gr
Website : www.scientact.com.gr