

Water Management Division

Active Leakage Control Pilot Project in Oliena, Sardinia (IT)

Innovative solutions for water
and energy efficiency



Customer: Abbanoa SpA

Project Name: Location: Oliena, Sardinia (IT)

Network Length: 38 Km – Population: 7000

Year: 2016



PROJECT OBJECTIVES

- Leakage reduction and control
- Maintenance of stable and efficient distribution
- O&M cost reduction



PROJECT TASKS

- Audit water network
- Flow and pressure monitoring campaign
- DMA design and validation
- Step-Test Analysis to find priority leakage area
- Leakage detection using acoustic equipment and tracer gas
- Pressure management and stabilization
- Pressure transient control and air management
- Design of interventions for leakage control and network efficiency
- DMA management software set-up



RESULTS

- Initial Leakage: **29,7 l/s**
- **17.2 l/s** (542.000 m³/y) recovered after pressure management and leaks detection
- Pay Back Period: **12 Months**
- Oliena pilot selected among the **best Italian projects** (category of technological innovation) included in the database "Useful for Italy" by Utilitalia, the federation that brings together 500 Italian water utilities

