



Optimization of distribution networks. Reduction of NRW Leak detection campaigns



DESCRIPTION

The optimization of the distribution networks basically involves minimizing non-revenue water, the water lost by leakage (visible and hidden), and unaccounted-for water.

The actions required to achieve optimization and, therefore, obtain efficient networks are multiple and complex in their nature, such as the subdivision of the supply and its monitoring, the availability and the management (asset management) of reliable information, the systematic detection and location of leaks and the definition of pressure control and monitoring strategies.

This programme covers the field work aimed at locating water leaks, thus enabling the minimization of losses and the improvement of the system's efficiency.



OBJECTIVES

The provision of a highly-specialized service for the detection of non-visible leaks that cause significant water losses and lead to the inefficiency of the water system, as well as to define appropriate strategies for the regulation and control of supply pressures.



ACTIONS

- Prior identification of the areas responsible for the greatest water losses through the monitoring programme.
- Field trip for the planning of the works and the identification of check valves to perform closures.
- Review of the information on the municipal distribution network.
- Review of pipes susceptible to leaks using specialized acoustic correlation equipment.



TARGET

Public administrations, public companies and municipalities with competencies over the service.



RESULTS / BENEFITS

- Water resources savings.
- Reduction of energy consumption (kWh) and carbon footprint.
- Reduction of energy cost and/or purchase of water.
- Improve service quality.
- Minimization of negative impacts arising from accidents.