SMART METERING INFRASTRUCTURE

A comprehensive smart metering solution using sensors and water and energy meters

Real time monitoring of water and energy consumptions
THE BENEFITS FOR YOU

INCREASES the reliability of meter readings using technology that is easy to deploy and share.

IMPROVES the diversity and quality of services for end users (operators, local authorities and their customers, real estate managers).

PROTECTS natural resources and the living environment.

- The reliability of an automatic system removing any need for the end-user to be present for the reading
- The possibility of sharing the infrastructure with other data collection systems
- Real-time monitoring of consumption
- Operational cost optimisation (detection of malfunctions, fewer disputes regarding estimated consumption, etc.)
- Reduced environmental impact (protected architectural assets)

SMART METERING INFRASTRUCTURE INNOVATION

SMART METERING Infrastructure is based on a radio communication infrastructure combining a long-range VHF (169 MHz) & GSM/GPRS. It involves the collection and transmission of information from meters (Metering Data Collection) to a data management system (Metering Data Management):

- A Sensor reads the meter index and automatically supplies it to the Transmitter which sends it to a network of VHF Collectors several times a day.
- The Collectors, at high points in the remote reading areas, collect all the meter readings sent in an average radius of 1 km, then communicate them via a public telecommunications network to the management system SITR (Système d’Information TéléRelève).
- SITR carries out data acquisition, processing and storage. It also enables the supervision and maintenance of the infrastructure and communicates with the client's different IS interfaces.
- The services associated with the SMART METERING infrastructure innovation are described in the products: SMART WATER METERING Services, SMART METERING Business.

OUR REFERENCES

- **Paris Left Bank - Lyonnaise des Eaux (France) - 2008**
  - Installation of smart metering systems on 28,000 main meters
  - Installation of 240 receivers on rooftops to limit visual pollution

- **Malta - Ondeo Systems - 2010**
  - Provision of an AMR system of 250,000 smart meters, rolled out over 3 years. In May 2011, approximately 50,000 meters were already fitted and 130 VHF collectors deployed

- **GrDF - Ondeo Systems (France) - 2010**
  - Technology benchmarking in Auch (7 collectors, 5,400 meters fitted) for remote gas meter readings. Proven benefits of the solution: Straightforward and rapid deployment and more reliability (compared to 3 other competing pilot projects) in terms of stability and availability

- **Alicante - Agbar (Spain) - 2011**
  - Pilot project for 1000 meters with the Alicante Water Company, as an initial validation stage before launching the mass installation in 2012 (300,000 meters - 12 years)

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