ENERGY EFFICIENCY

Technology, finance and solutions at the service of citizens, local economy and environment.

APPROACH

Local governments pay increasing attention to energy efficiency policies, which are essential for fighting pollution, ensuring access to energy and to renewable resources. However, many Authorities still do not have a system capable of measuring/predicting consumption and of applying energy saving logics combined with use of the IoT. A necessary qualitative leap which can no longer be delayed.

SOLUTION

Municipia develops energy efficiency technological projects with the aim of "creating infrastructures" within the city in order to reduce energy consumption and pollution and to free up economic resources. At the same time, it provides innovative services to improve control of the territory and to give citizens concrete answers in terms of safety, mobility, quality of life and innovation.

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SERVICES

EFFICIENCY INCREASE IN PUBLIC LIGHTING (SMART LIGHTING):

- Implementation of innovation projects of existing plants with high efficiency systems, remotely managed and integrated in the logic of a smart city ecosystem (electric mobility charging, energy community management).

BUILDING AUTOMATION (SMART BUILDINGS):

- Activation of remote management systems and detection sensors placed in rooms and on windows for the active and automated regulation of lights, air conditioning, consumption monitoring and air quality.
- Activation of control over areas at risk, evidence of unsafe conditions and potential illicit behaviour.
- Numerical and timely verification of presences in single areas and in the building complex for verifying unauthorised accesses/exits, presence and safety control for emergency management, quality control of harmful gases.

ADVANTAGES

- **Decrease in energy consumption** and transition to renewable energy.
- Support for the development of light (bicycles, scooters) and heavy (cars) **electric mobility** by creating public recharging network infrastructures.
- **Lower environmental impact**.
- Greater **economic savings** for citizens, businesses and the Public Administration itself.
- Activation of management and monitoring systems with **reduction of maintenance** and related costs.
- **Greater service reliability** thanks to the use of new technologies and to the development of IoT solutions (sound detectors, rain calibrators, air pollution sensors, alarms and video security, and so on).
- **Quality**, **safety** and **reliability** in the provision of public services.
- Monitoring of energy consumption and **verification of faults and frauds**.
- **Comparative analysis** of consumption.
- **Computerised management** of system calendar/timetables.
- **Correlation** between consumption and corresponding costs.
- **Identification of anomalies**, waste and inefficiencies.
- Identification and **planning** of energy saving/efficiency raising measures.
- **Optimisation of supply** on the energy market.

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