



# WeLight

## The importance of monitoring.

WeLight is a telemanagement System for public lighting that enables lighting monitoring and maintenance control, as well as lighting management and management optimization, by monitoring consumption and acting on fluctuations.

### Scenario:

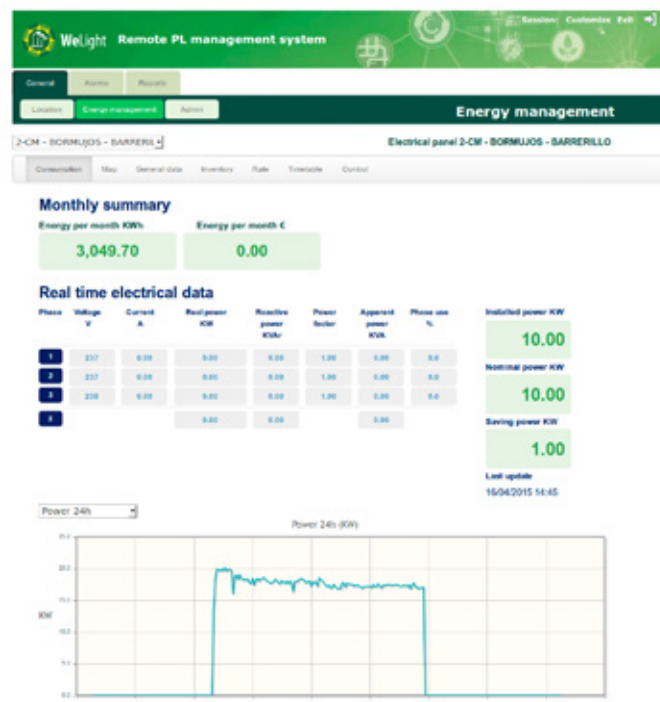
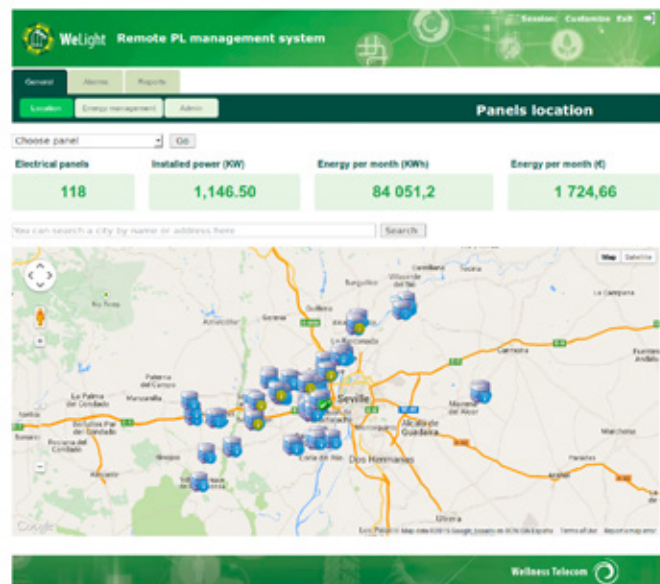
In recent years new models to explore public lighting installations have become widespread (contracts with energy services companies, ESCOS, efficiency investments, etc.). In these scenarios we are faced with the challenge of improving efficiency in public lighting systems management, maximizing the value of investments, optimizing operations, improving the service provided to citizens, and the quality of available information. Can we have useful, relevant, and immediate information that allows us to control the various factors which ensure investment success in public lighting while improving service quality?

### Solution:

WeLight system allows monitoring and control of public lighting infrastructure by detecting possible fluctuations in consumption or damage at the operational level, and by delivering consumption and savings reports at the executive level.

### Benefits:

- Real time detection of fluctuations in consumption.
- Optimization of on and off lighting fixture schedules.
- Electricity consumption control.
- Street lighting damage detection, improving response time and service provided.
- Operating costs reduction.
- Compatible with multiple technologies for LEDs or conventional lamps makers.
- Customizable platform for customers.
- Compatible with customers' information systems.



# How does it work?

## ENERGY MANAGEMENT

Track the progress of your energy consumption, follow the ROI and control your public lighting system in real-time:

- Consumption analysis of both electric and financial variables per day, month, and year.
- Saving and comparison measurements verification.
- Electrical measurements information by phase in customizable time intervals.
- Rate creation and configuration.
- Consumption simulation.
- On and off schedules management.
- Control of header line regulators and other surge protection and savings devices.

## MAINTENANCE AND INCIDENT MANAGEMENT

Receive real-time alerts and monitor the correct operation of the system:

- Alert management at the phase and panel box level.
- Custom settings for activating and deactivating alerts.
- Custom setting of thresholds for alert activation: electricity theft identification, faulty lights, etc.
- Alert notification settings through email or mobile application.
- Integration with other proprietary client systems.

## EQUIPMENT INVENTORY

Manage your assets with ge positioning information and customized parameters:

- Panel box and fixtures inventory:
  - Geographic location. (Geolocation charting).
  - Panel box status.
  - Existing equipment in panel boxes.
  - Electric configuration of panel boxes.
- Fully configurable panel box and lighting fixture inventory settings.

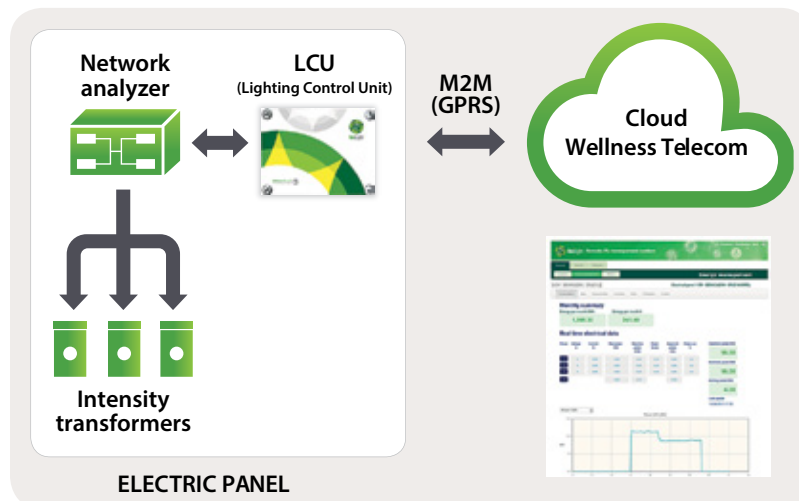
## REPORTING

Get data reports on consumption, savings, service level, inventory, fluctuations and billing:

- Consumption.
- Savings.
- Alert.
- Data and electrical variables analysis.
- Invoice calculation.
- Power curves calculation.
- Planned and actual data comparison at panel box or full installation level.
  - Daily, Monthly, Annual, specific interval and comparative diaries.
  - Detailed reports and executive summaries
- Exportable to PDF and EXCEL.

## Solution outline:

The system consists of a network analyzer that facilitates electrical measurement and hardware component called Lighting Control Unit (LCU) which manages the measurement equipment, on and off panel box schedules, server communication, and control additional items in the panel box (for example, flow regulators, door opening sensors, etc.).



The software component runs on Wellness Smart Cities’ servers in the cloud under a SAAS mode, based on a monthly fee per electrical panel box. This reduces the need for CAPEX, lower the operating costs and provides great flexibility. Alternatively, the system can be installed on customer’s premises. Communication from/to the panel boxes usually occurs via mobile communications (GPRS) yet the solution can work with any established communications network.