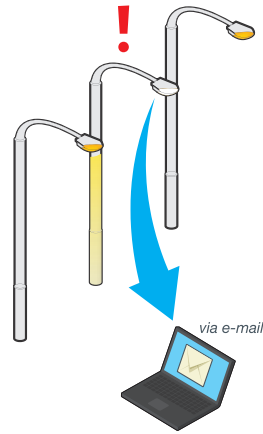
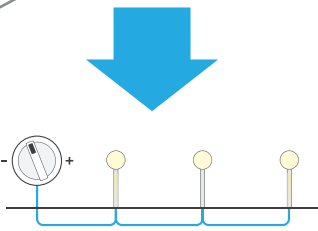




Intelligent management system for street lighting

Case study

50%
del tiempo
the power is regulated



Identification
of an incident in
real time

Street lighting
represents
40%
of the energy consumption in municipalities

Results

The client was able to lower its electricity bill for lighting by 30% to 35% with the installation of the CirLAMP intelligent lighting system.

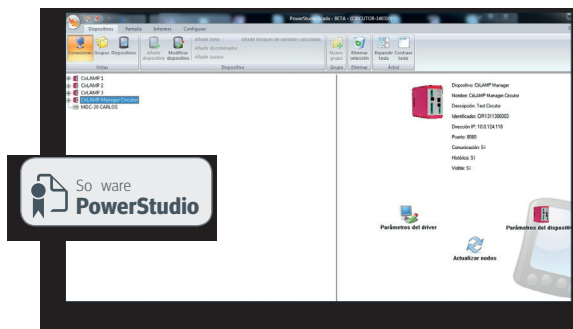
Another one of the results obtained with the CIRCUTOR intelligent street lighting control system was that the client was able to reduce response times to incidents because it had real time information on the status of the installation.

The CIRCUTOR CirLAMP system provided additional benefits such as:

Faster response times to incidents: With fault identification, it is possible to know the status of alarms such as, for example, burnt out lights, lights in blinking mode and open capacitors.

Improved preventive maintenance that increases the useful life of the lights: The unit made it possible to report the operating time of each light, which in turn enabled changing them when they were reaching the end of their useful life. The system reported an event to the manager when reaching the programmed maximum operating time.

Unit edition screen



Lighting status monitoring map



Query via web for lighting management

Identificación del nodo	Estado	Referencia	Luminaria	Longitudinal	Alarma
1	A	Test 1	0.00000	0.00000	OK
2	A	Test 2	0.00000	0.00000	OK
3	A	Test 3	0.00000	0.00000	OK
4	A	Test 4	0.00000	0.00000	OK
5	A	Test 5	0.00000	0.00000	OK
6	A	Test 6	0.00000	0.00000	OK
7	A	Test 7	0.00000	0.00000	OK
8	A	Test 8	0.00000	0.00000	OK
9	A	Test 9	0.00000	0.00000	OK
10	A	Test 10	0.00000	0.00000	OK
11	A	Test 11	0.00000	0.00000	OK
12	A	Test 12	0.00000	0.00000	OK
13	A	Test 13	0.00000	0.00000	OK
14	A	Test 14	0.00000	0.00000	OK
15	A	Test 15	0.00000	0.00000	OK
16	A	Test 16	0.00000	0.00000	OK
17	A	Test 17	0.00000	0.00000	OK

LAMP MANAGER for managing the network of units, which is installed in the main electric panel.

The CirLamp NODES can make an installation more flexible and adaptable to each need, because it can be installed: in the base of the light, thereby saving on installation costs, or on the lamp post to increase the security of the installed unit.

These modules communicate with the CirLAMP MANAGER via PLC, taking advantage of the electrical network. This is an advantage because there is no need to install extra communication cables or open conduits underground, thereby saving time and costs.

After the nodes are connected, the CirLAMP MANAGER gathers all the information and is able to manage each light point-to-point. The system enables controlling up to 4 time

slots with different brightness levels according to the time of night and road conditions, which results in substantial energy consumption savings. Programming is controlled by an internal astronomical clock that automatically opens and closes the circuit according to the local sunrise and sunset (with the addition of the CirLamp 8i8o input and output module).

Together with the efficiency of the brightness control, the CirLAMP MANAGER can send information by email to the head of maintenance according to the different event types, so that quick and effective action can be taken if a system anomaly occurs, thereby saving on maintenance costs.

Intelligent management system for street lighting

Case study



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