

Case Study

Industrial Energy Efficiency



Sector: Industry Large Buildings Infra-structures Retail / Services

Subsector: Auto sales stand & workshop chain Year: 2014

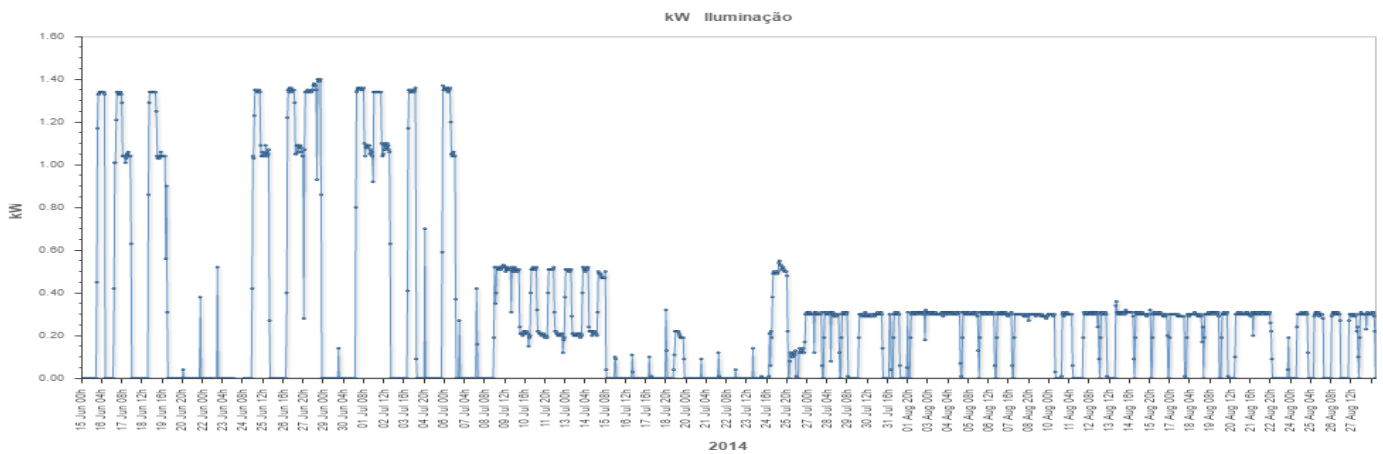
Client: JAP Automotive Implementation (months): 2

Location: 14 sites around Portugal Performance Contract (years): N/A

Type of Contract: Performance based, lighting system improvement & optimization

Project description:

JAP Automotive is an industrial group with a large number of auto sales and workshop site around the country. Energy costs have always been a point of concern for management, and the large energy prices increases in the last years, made JAP acquire from EWEN, an energy management system. Soon after the installation of EWEN's e+Monitor energy management system, EWEN was asked to optimize the lighting system. During 2014, after several studies including numerous field measurements, EWEN recommended the substitution of the existing lighting systems, which consisted mostly of T8 fluorescent lamps with ferromagnetic ballast, Sodium vapour lamps, and halogen lamps. The new lighting system was based on T5 fluorescent and LED tubular lamps, as well as HPI and LED lamps. In the chart presented below, the reduction in energy consumption is clearly visible (shown for a small size sales stand).



Project results:

- Nr de T5 lamps installed: 1467
- Nr dof HPI Imps installed: 222
- Nr LED lamps installed: 140
- Nr of lighting apparatus installed: 854
- Investment: 89.127,3€**
- Annual saving: 26.845,6€/yr**
- Payback: 3,32 years**

