



Luz del Tajo saves 7,000kWh of electricity with a lighting solution for lifts

Lighting is responsible for a significant amount of electricity consumption in our shopping centres. A report from the International Energy Agency highlights that switching to efficient lighting could cut the world’s electricity bill by 10% and save 16,000 megatonnes of CO2 in the years up to 2030. Improving electricity efficiency is one of Sonae Sierra’s public commitments, and with this in mind Luz Del Tajo in Spain recently introduced an innovative measure to avoid wasteful consumption.



The team identified that lighting was not needed in the shopping centre’s lifts when they were not in use, and therefore decided to install presence sensors that would automatically switch the lights on and off. Fluorescent light bulbs were also substituted by more efficient LED bulbs by the maintenance contractor, Schindler.

The team calculated that the hours of operation would drop from 22 hours a day (on average) to eight hours; as presented in the table below, representing savings of almost 7,000kWh per year. This is equivalent to the annual electricity consumption of a large household, and allows us to save costs of €1,386 per year after a payback period of 3.2 years to cover the investment costs - a major accomplishment considering that this is achieved through changes to three lifts and four hoists!

	Lifts	Panoramic lift	Hoists
Hours inoperation per day - before	17	24	24
Hours in operation per day – after	13	3	9.1
KWh per year - before	1,787	5,466	315
KWh per year – after	319	298	20
kWh saving per year	1,468	5,168	295
Cost saving per year (€)	293	1,034	59

All light bulbs that need replacing at Luz del Tajo will from now on be substituted with LED light bulbs.