

# 25% Energy Savings on Lighting at the SCA Personal Care Plant in The Netherlands

## CASE STUDY

### CLIENT PROFILE

SCA is ranked as the 2<sup>nd</sup> greenest company in the world; they are a world leader in incontinence care and hold leading regional market positions in baby diapers and feminine care. Operating in more than 90 countries with 52,000 employees, SCA considers the environment a prerequisite for the creation of a successful company.

### BUSINESS NEED

The SCA Netherlands production plant needed a solution that would save energy and lower their carbon emissions. The Plant production floors and offices are illuminated by a mixture of Metal Halide and fluorescent lamps while their outdoor parking areas are lit by HPS fixtures. SCA required one total energy solution to control and save energy on all the lighting circuit systems.

### SOLUTION

SCA chose PowerSines Lighting Energy Controller (LEC) system due to its ability to work with different lighting systems, proven energy savings results and reduction of conduction losses. The LEC system reduces energy consumption by stabilizing and controlling the voltage supplied, it installs easily at the electric panel and does not require any changes to be made to the existing infrastructure.

Using the Dual Operation Mode LEC's 4-scenario feature was pre-programmed to provide savings for the outdoor lights according to sunset and sunrise and in parallel, LEC controlled the lighting circuits within the Plant as well. As a result SCA benefitted from an additional savings of up to 10% using the astronomic-clock.

### RESULTS

SCA conducted an audit survey to review the energy consumption and currents measured on the LEC A 3x30A device. LEC extended lamp life, reduced conduction losses by 40%-50%, reduced current by 23%-29% and generated a total power consumption reduction of 25% for SCA. Results are detailed in the table below.

In effect, each LEC unit will generate for the SCA Production Plant a total savings of 16.981 kWh per year and reduce CO<sub>2</sub> emissions by 7,641 Kilograms.

	Before LEC	With LEC	Reduced	%
Current L1	16.1 A	12.3 A	3.8 A	24%
Current L2	16.7 A	12.8 A	3.9 A	23%
Current L3	16.4 A	11.7 A	4.7 A	29%
<b>Total</b>	<b>11,1 kW</b>	<b>8,3 kW</b>	<b>2.8 kW</b>	<b>25%</b>

### APPLICATION

Production Plant

### BENEFITS

23%-38% energy savings

ROI within 1-3 years

Up to 10% savings with Dual Operation control & Astronomic clock on outdoor lights

Conduction losses decreased by 40%-50%

Quickly installs on existing infrastructure

Controls & Stabilizes voltage supplied to all lights

