

# HEINEKEN Goes Green with PowerSines LEC Energy Savers

## CASE STUDY

### OVERVIEW

Since 1863 HEINEKEN has been brewing beer and today has the largest portfolio of beer brands and breweries all over the world. In addition, Wim Arkensteijn stated; *“HEINEKEN’s vision of brewing a better future’ aims to correct economic and ecological balance through sustainable investment in our natural environment, society, people and partnerships.”*

HEINEKEN is focused on continuously improve the environmental impact of their business brands; empowering their staff and the communities in which they operate; and positively impacting the role of beer in society. This is where HyTEPS and PowerSines energy saving technology comes into the picture.

### HEINEKEN’S GREEN SOLUTION

Since HEINEKEN’s goal is to be the 'greenest' brewery in the world, they required an all-encompassing energy efficiency solution that would not only cut their electric costs but also improve their efficiency in two bottling beer plants and two warehouses. HyTEPS Energy Saving & Power Quality services recommended installing PowerSines LEC energy saving systems for several reasons:

- ➔ LEC offers immediate savings of up to 35%.
- ➔ LEC installs simply and quickly on the existing electric infrastructure without disrupting business operation.
- ➔ The typical ROI with PowerSines systems is under 3 years and includes overall savings in the reduction of the electric bill, extended electrical equipment lifecycle and a dramatic reduction in maintenance and operational costs.

### RESULTS

With a total of 14 LEC units, HEINEKEN achieved savings ranging from 13.2% to 26.2% - averaging 19.4%, and an expected ROI of less than 2 years. In addition, lamp lifetime has been extended and lamp replacement has been eliminated reduced, lowering maintenance services and making the overall saving even greater.

*“We continue to innovate and invest; the yearly savings achieved with LEC each year is equivalent to 856,188 kWh and 445,218 kg of CO<sub>2</sub>, which is the annual consumption of 245 households in The Netherlands.”*

*Thus Wim Arkensteijn, Sr. Engineer Electrical / Instrumentation at Heineken (27 Feb 2012)*

### APPLICATION

Plants & Warehouses

### BENEFITS

20%-38% savings

ROI in 1-3 years

Extends lamp lifetime

Dual operation mode for all lighting circuits

Zero maintenance required

Installs on any existing electric infrastructure

48% improvement in conduction losses

Voltage control & stabilization for all lighting systems: Fluorescent, HPS and MH

HEINEKEN OVERALL SAVINGS WITH LEC	
Energy Savings	19.4%
ROI	less than 2 years
kWh Savings	856,188 kWh
CO <sub>2</sub> Savings	445,218 kg of CO <sub>2</sub>

