

# CASE STUDY



**European  
University Cyprus**

LAUREATE INTERNATIONAL UNIVERSITIES

## VOLTAGE OPTIMISATION IN UNIVERSITIES

### Introduction

European University Cyprus is one of the leading institutions of higher education in Cyprus, joining the Laureate network in 2005. European University Cyprus has earned a reputation for excellence in teaching, innovation and research.

### The Challenge

European University Cyprus is committed to promoting green policies for its campus and the environment in general. European University Cyprus in its efforts to enhance its Corporate Social Responsibility actions searched for the best solution that would reduce energy consumption for the premises of the University.

### The Solution

The University management team, after research, concluded that the PowerStar voltage optimization technology was the best solution not only for the reduction of energy consumption, but among other its short payback period, increased life expectancy of equipment, reduced maintenance costs and guaranteed results. Education facilities provide the ideal environment for voltage optimization technology. Inductive loads such as motors and fluorescent lighting combined with catering facilities, IT equipment, servers and associated cooling systems can all achieve increased efficiency and substantial energy savings.

### Customer Quotation

“ EMSc (Cyprus) worked with a high level of professionalism to ensure that during the installation of Powerstar and the verification process, the operation of the university wouldn't be interrupted. The saving results have exceeded the guaranteed savings therefore the payback period will be reduced. ”

**Michalis Mavros**, Health and safety officer, European University Cyprus

### Savings & Benefits

#### Key Figures - North Building

Reduction in energy consumption: **11.9%**  
Tonnes of carbon dioxide saved: **57 tonnes**  
Return on Investment: **2 Years**

#### Benefits

Following the impressive saving results from the Powerstar installation at the North building, the management team decided to have a second unit installed at their South building.

EMSc (Cyprus) Ltd engineers performed a site survey, recorded the income voltage of the building and suggested the installation of a PowerStar 179 kVA. The installation was effortless and didn't interrupt the operation of the university.

#### Key Figures - South Building

Reduction in energy consumption: **8.8%**  
Annual kWh not used: **21,831 kWh**  
Return on Investment: **3.5 Years**



**EUC, one of the leading universities in Cyprus.**

