

LEC Stabilizes Voltage Fluctuation in EuroPark Shopping Center, Saving 20% on Electric Costs

CASE STUDY

OVERVIEW

The 86,000 sqm Multipurpose "EuroPark" shopping and entertainment center in Moscow is one of the largest and most central facilities, located at the intersection of three major highways and providing free parking services for over 1500 vehicles.

Operating 24/7 the center is lit with metal halide lamps installed in ceiling fixtures of over 20 meters in height. Due to the frequent voltage fluctuations, EuroPark was dealing with regular lamp burn out and costly maintenance servicing.

After researching the market, EuroPark chose PowerSines proven and reliable LEC, lighting energy controllers, to eliminate the need for lamp replacement due to frequent burnout, since LEC stabilizes the voltage and ensures the RIGHTVOLTAGE is supplied continuously to all electric equipment connected in the facility.

SOLUTION

EuroPark chose PowerSines LEC A systems due to voltage stabilization, which eliminates over voltages and improves power quality. In addition, the LEC systems provide immediate savings without requiring any changes to be made to the lighting equipment or electrical infrastructure. With LEC, EuroPark:

- Eliminated costly and cumbersome maintenance work on replacement lamps
- Stabilized voltage supplied to all lighting systems
- Immediately benefited from 20% savings on their electric bill

RESULTS

Three LEC A systems of 50A and 30A were installed in the facility. LEC stabilized and controlled the voltage supplied to the entire 86,000 sqm facility including the center, shops, parking lots and escalators. LEC achieved 20% in energy savings, but more importantly it solved EuroPark's main problem of metal halide lamp burnout.



LEC A 30A – 50A

APPLICATION

Shopping Center

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

