

Case study – Lighting Energy Control – Budapest - BDK Kft.



Budapest, the capital of Hungary the town with the biggest population and significant volume of energy consumption.

The public lighting network linked to the route network of Budapest represents 32,949 MW power including the decorative illumination. This drives the capital to the most effective way of energy consumption considering the growing prices of energy.

The maintenance and operation of the public and decoration lighting system of the capital is handled by BDK Kft. The core principal of the company: every watt counts. Continuous efforts are made as reconstruction and development started from 2003 till today to keep energy cost at a minimum level.

As an important step to reach energy-cost saving, Budapest decided to regulate light intensity of the public lighting system.

The tender written in this theme in year 2003 was won by LEC voltage control devices distributed by B&B Kft. LEC devices are voltage controllers based on a unique patent. Their small size and programming ability provides easy handling, there is no need to alter lighting system by its installation, and there is no distortion caused on the voltage wave.



According to the tender 26 pcs of voltage controller was delivered and installed and a long term successful cooperation had begun between the capital and B&B.

Due to the significant energy and cost saving reached by voltage controlling method, the B&B Kft won a new tender in year 2004, therefore the first test systems were followed by orders in line.

Bricks&Bits Kft has installed more then 200 pieces of LEC devices on the Budapest public lighting network from year 2003 until today.

According to the evaluation of BDK Kft in the beginning of year 2005 1066,8 kW power has been saved with the installation of LEC systems.

The saving is not used during the whole night on the most busy route network of Budapest. The moderation of light intensity is regulated by law according to the amount of the traffic this way the period of saving is determined only between 10 pm till 4 am. Even of this fact the saving reached was 17,1%.

Currently there are measurements in process of certain transformation circles, where LEC devices could be installed in the near future in order to save energy on the Budapest public lighting network.

***„The LEC devices are completely up to the technical expectation determined by BDK Kft. and the return time from the energy saving is 2-3 years.”
Horváth Lajos, BDK***