

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



Budapest, the capital of Hungary the town with the biggest population places attention to the effective energy consumption especially in the light of energy price rise.

The public lighting network linked to the route network of Budapest represents 24,5 MW power without the decorative illumination. Budapest has reached this figure with a continuous reconstruction as first step on cost saving with cooperation of BDK Kft. who is responsible for the maintenance and operation of the public and decoration lighting system. Before the reconstruction the in-built public lighting power was up to 32,949 MW.

As second step to reach energy-cost saving, Budapest planned to regulate light intensity of the public lighting system.

In year 2003 a tender was written in this theme, in which BDK Kft asked for deliver and installation of 26 pcs of voltage controller.

The tender was won by Bricks&Bits Kft with its LEC devices.

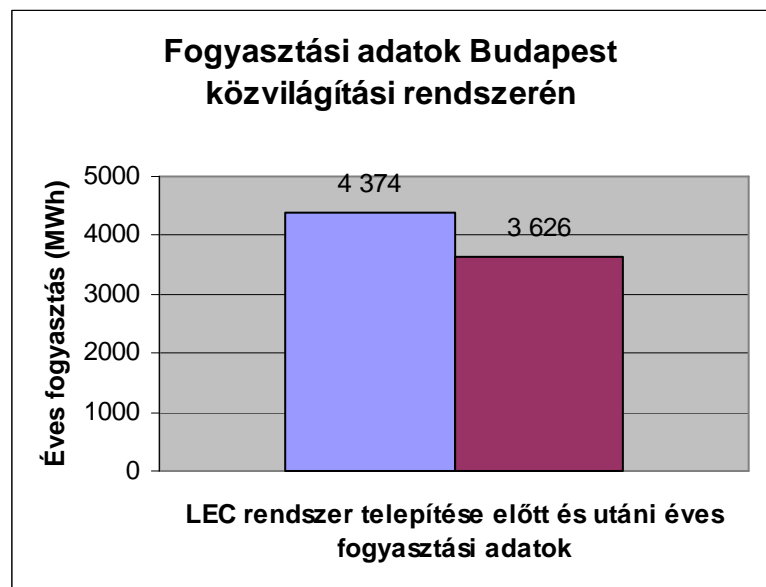


Due to the successful results reached after installation Budapest in cooperation with BDK Kft. has carried out the same type of energy-cost saving by creating another tender. From year 2004 the orders have been coming in line as to follow the first test systems.

Bricks&Bits Kft has installed more then 100 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%.

Éves fogyasztási értékek Budapest LEC rendszerrel telepített közvilágítási hálózatán



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.