

# BEST PRACTICE IN HUNGARY – ENERGY EFFICIENT CITIES

## BASIC INFORMATION

### Title of the Best Practice:

Successful crowdfunding campaign and installation of LED lighting in the Karolina High School, Szeged, Csongrád County, Hungary

**Energy efficiency measures implemented in the building:** LED lighting was installed in the 1100 m<sup>2</sup> building which will save around 66,203 kWh energy annually and 40.12 tons of CO<sub>2</sub>.

### Location:

**City:** Szeged

**Region:** Csongrád County, Southern Great Plains region

**Country:** Hungary

**GMaps link:** <https://goo.gl/maps/BYYW3qboBRNvd4Xj6>

### Partners involved:

**Karolina Óvoda, Általános Iskola, Gimnázium, Alapfokú Művészeti Iskola és Kollégium**  
([titkarsag@karolinaiskola.hu](mailto:titkarsag@karolinaiskola.hu))

website: <http://www.karolinaiskola.hu>

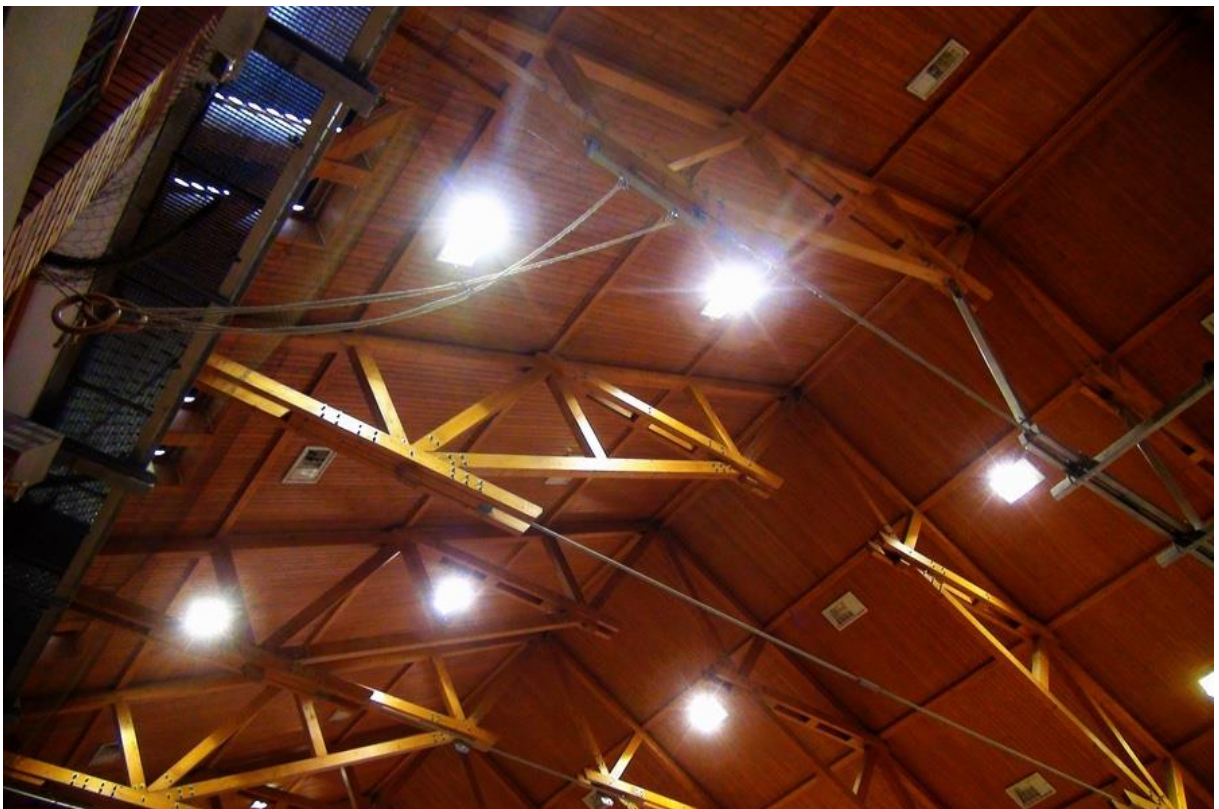
postal address: H-6725 Szeged, Szentháromság u. 70-76.

**Implementation year:** 2015

### Photo:







[Source: <https://www.bettervest.com/en/projekt/LED-Karolinaschule-Ungarn#beschreibung>]

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## SYSTEM CHARACTERISTICS

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### **Brief Description:**

Crowdfunding Campaign for Energy Efficiency Project in Hungary. The project focuses on installing LED lighting in Karolina High School in Szeged, Hungary. The school was founded at the end of the 19th century, and an additional extension with a floor area of 1100 m<sup>2</sup> was built in 2001, which houses the kitchen, the dining room, the chapel and the sports hall. LED lighting was installed in the new extension, the aim of the project was to generate savings from reducing electricity costs for lighting in this additional section. The project contributes to climate protection in Hungary and also serves as an educational project to demonstrate to young people practical steps towards a low carbon future. Crowdfunding is not widespread in Hungary especially for energy projects, however this project demonstrates the feasibility of such solutions.

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## FINANCIAL SOURCES AND FINANCING DETAILS

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**Total investment value:** *46,400 EUR*

**Sources of financing:** *Private donors through crowdfunding platform Bettervest*

**Electricity savings (MWh/year):** **66,203 kWh/year**

**Or fuel savings (kg or m<sup>3</sup> or kWh or GJ):** **40.12 tons of CO<sub>2</sub>/year**

**Cost savings (EUR/year):** **8,239.63 EUR/year**

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## PROJECT IMPLEMENTATION BENEFITS

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- Proves the feasibility of crowdfunding in energy investments in Hungary
- offers lighting solutions that make it possible to make more economical use of worldwide resources.
- A dynamic annuity factor for consumption costs is included in all energy costs, which simulates an electricity price increase of 3.5% annually over the project duration.

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## ADDITIONAL INFORMATION

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<https://www.bettervest.com/en/projekt/LED-Karolinaschule-Ungarn#details>