

# BEST PRACTICE IN HUNGARY – ENERGY EFFICIENT CITIES

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## BASIC INFORMATION

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### Title of the Best Practice

Installing photovoltaic capacities in the public buildings of the Municipality of Tolna

### Energy efficiency measures implemented in the building:

An overall of 53,4 kWp capacity was installed in three public buildings: the Town Hall (72 pieces), Szent István High School (formerly Sztárai Mihály High School, 70 pcs.) and the Wosinsky Mór Primary School (36 pcs.) generating an overall of 55,4 MWh/year.

### Location:

**City:** Tolna

**Region:** Tolna, Tolna County, **South Transdanubia**

**Country:** Hungary

### GMaps link:

<https://www.google.com/maps/place/Unnamed+Road,+Tolna,+7130/@46.4323655,18.781895,20z/data=!4m2!1m6!3m5!1s0x0:0x5065e1ad7f6d3f49!2sTolnai+Szent+Istv%C3%A1n+Katolikus+Gimn%C3%A1zium!8m2!3d46.4323632!4d18.7820774!3m4!1s0x4742f1499a1e4159:0xed5a3be91ce4e014!8m2!3d46.4322793!4d18.7822758>

### Partners involved:

- 1. Municipality of Tolna (applicant; László Mireider, Head of Department, Department of Building and Maintenance; [epites@tolna.hu](mailto:epites@tolna.hu))**  
website: <http://www.tolna.hu/>  
postal address: H-7130 Tolna, Hősök tere 1.
- 2. Sztárai Mihály High School (investment site)(renamed, new name is Szent István Catholic High School)**  
website: <http://tolnaigimi.hu/>  
postal address: H-7130 Tolna, Bajcsy-Zs. u. 73.
- 3. Wosinsky Mór Primary School (investment site)**  
website: <http://www.wosinskyiskola.hu/>  
postal address: H-7130 Tolna, Bartók B. u. 23.

**Implementation year:** *May 2015*

**Photos:**



**Fig 1: High school in Tolna** [Source TCDA]



**Fig 2: Tolna Town hall** [Source TCDA]

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## SYSTEM CHARACTERISTICS

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### **Brief Description:**

The specific call this project was submitted to is a national (except Central Hungary) program aimed at increased the share of RES in public buildings and supports deployment of small-scale photovoltaic capacities. The maximum project size is roughly 350,000 €, whereas most projects were around 100,000-150,000 €. The call introduced numerous restrictions/conditions, such as limiting the group of potential beneficiaries by excluding those who were support by previous calls. Further limitations were: achieving net GHG-emission and fossil fuel usage reduction were mandatory; a price limit was imposed on the unit price of the photovoltaic panels.

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## FINANCIAL SOURCES AND FINANCING DETAILS

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**Total investment value:** *100,000 EUR (approximately)*

### **Sources of financing:**

- *EU funds: EEOP (Hungarian mainstream OP)*

**Electricity generation (MWh/year):** 55,4 MWh/year (generated by RES)

**Or fuel savings (kg or m<sup>3</sup> or kWh or GJ):** 199,44 GJ / year

**CO<sub>2</sub> reduction:** 51,788 t/year

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## PROJECT IMPLEMENTATION BENEFITS

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Decreased GHG emission and fossil fuel usage. Increased visibility and possible spill-over effect within the general population.