

A faint, light-colored map of Europe serves as the background for the central text. A thick red curved line is visible in the top right corner of the slide.

**EGT Financial Mechanism  
2009-2014  
Energy Efficiency Program  
HU02-0008-A1-2013  
Tatabánya**

# Project



**TSZC Kereskedelmi, Vendéglátó és Idegenforgalmi Szakközépiskolája és Szakiskolája energiahatékonysági felújítása**

# Habilitator



The EEA Grants is a financial mechanism established by Norway, Iceland, and Liechtenstein. These 3 donor countries are members of EEA as opposed to EU. They do not contribute financially to EU's common policies.

The EEA Agreement was signed by EEA's and Hungarian representatives on 12 October 2011 so that we could win the tender.

# Support



- ❖ Recipient: TSZC
- ❖ Place of Implementation: TSZC Secondary Vocational and Technical School of Trade, Catering and Tourism
- ❖ Total grants amount: 162.509.709 HUF
- ❖ Allocated amount: 138.133.251 HUF
- ❖ Support percentage: 85%
- ❖ TSZC own resources: 15%
- ❖ First date of implementation: 30 August 2016
- ❖ Final date of implementation: 23 March 2017
- ❖ Vindication period: 5 years

# Implementation



## **Architectural renewal:**

- Frontage Insulation - 2033 m<sup>2</sup>
- Stucco- 2033 m<sup>2</sup>
- Windowsill Framing 242 m
- Cover Panel - 566 m<sup>2</sup>
- Built-up flat roof heat insulation - 85 m<sup>2</sup>
- Fenestration Replacement (window: 114 pcs, roof dome: 1 piece, door: 2pcs)

## **Engineering Renewal:**

- Pump Replacement – 7pcs
- Thermostatic Radiator Valve – 174 pcs
- Induced Ventilation – 1system
- Solar Panels – 125 pcs
- Facility and maintenance supervision: computer; security password; sms sending modul

# Implementation



## Extra supplementary works:

- Window replacement – 9 pieces in the building of KPVDSZ;
- Roof renewal – 288 m<sup>2</sup> covering with foil; fixing gutter; replacement of damaged tiles;
- Front door – 1 piece inner main entrance door replacement;
- Frontage baseboard fixing – 175 m<sup>2</sup> repainting the outer wooden structure;

**Gross 21 millions HUF - TSZC / NGM own resources**



# Raising awareness



- There were 3 competitions in the school:
  1. How to make your school more energy efficient? was an invitation among students to make presentations about the project. These were published (groups of 3, jury of 6, book vouchers as awards)
  2. How to make your environment more energy efficient? was an invitation for drawing competition. All the students could choose their favourite ones. The awards were drawing kits.
  3. How to make your home more energy efficient? was an invitation for an essay writing competition (jury of 6, book vouchers as awards)
- The winning presentations, drawings and essays are exhibited in the school hall
- Energy Efficiency Presentations were held for the students by teachers
- Parent - Teacher Conference was held in the hall of the school

# Energy Management and Capacity Expansion



## Capacity expansion

### 1. Training of the operator of facility automation system:

- 1 person completed a 2-day training;

Basic knowledge of energy efficiency, system operation knowledge (settings, recalibrations, maintenance), handling the intelligent facility management

### 2. Training of teachers / educators:

- 2-day training was held for teachers;
- Basic knowledge of energy efficiency;
- Special techniques, methods of presenting energy efficiency knowledge effectively;



**We are one of the six supported institutes!**



**Thank you for your attention!**