

HUNGARY: Medgyaszay I. Szakképző Iskola, Gimnázium és Kollégium, Veszprém (Gymnasium and College)

The founding idea for this institute happen 1984 in line with opening of Austrian based BRAMAC roof tile manufactory, 1985 in Veszprém City, based on at that time huge lack of trained roofing craftsmen.

Curriculum and organisational structures are created by collaboration of Austrian based company , education & cultural Ministries of both countries and Veszprém County Council. Related negotiations could be finalized only after the fall of the iron fence. In early 1991 financial sources for construction could be defined and up to 1992 the school was opened.

Pupils have to submit applications, offering different opportunities for school education combined with vocational training and professional work from the 16th year of age on. Parallel to that higher education with maturity examination is offered, as well as 84 collage places are offered. Total amount of pupils will be limited up to 450, educated by 55 teachers.



Main entrance



Electricity connections will need special metering equipment

PROJECT SUMMARY

Company name (acronym)	Medgyaszay I
First metering installed	
Baseline consumption (2006 – 2008)	129 kWh/m2/a
Final consumption (2009 – 2010)	
Savings / avoided consumption	About – 9% *)

Saving generated by renewal of heating boilers

STATUS QUO ANALYSIS

Given by the fact, that professional education in workshops are offered by the institution, electricity grid connections are over 100 A and will need stronger meters. Ordering proceedings based on such low numbers of meters is to expensive, that was the reason, why the institution was not metered. In any way a detailed “Energy Audit”, will be needed to identify energy saving potentials.

Exchange of heating boilers brought only reduction of 9% of gas consumption.

Building performance indicator is the best under pre selected 14 public buildings in Veszprém County with round 129 kWh/m²/a. Possible reduction of this figure to 30 – 35 kWh/m²/a will need investments in “building technology” as well as detailed research about usage behaviours. Given by the fact that the institution is providing vocational training, it is pre-agreed to start a curriculum for students in energy efficiency vocational training and education.

NEED FOR INTERVENTIONS

Collaboration with DSO about connection to the electricity grid – see conditions of transformation station:



By establishment of an Energy Service Contracting proceeding – via a 3PF tool update of building infrastructure focused to building envelope (isolations, windows) have to be improved. Condition of building structure – given by first “Energy Check” analysis will allow improvement of building performance indicator up to 30 – 35 kWh/m²/a. Needed investment could be provided by an Energy/Efficient Investment Programme on County level


SME POINT OF VIEW

Management of institution was started as an international public private cooperation – therefore the teacher of the institution will have no problem to continue in this spirit.

HU-IM part of aIM4SMEs Project: List of Public Buildings, Veszprém County

Intelligent Energy  Europe

Contract no. EIE/07/136/SI2.466711, Duration: 12/2007 – 03/2010

1	Name of Building/Company		Medgyaszay I. Szakképző Iskola, Gimnázium és Kollégium, Veszprém (Gymnasium and College)				
	Address						
	Street					Tüzér u. 42	
	City					8200 Veszprém,	
	Name of Director		First name	Last name			
			Mátyás	Sándor			
	Contact		Phone	Mobile	Email		
			88/423-645		miszik@vpmegye.hu		
	Clerk (HVAC Technician)						
	Name		First name	Last name			
Contact		Phone	Mobile	Email			
Buildings Key-Data			Occupation:				
Year of construction:		1992	hours per day:	9			
Usable Area in m2		6,140	days per week:	6			
Number of Users		55(Teacher)+394	weeks per year:	40			
Annual Energy Consumption			2008	2007	2006		
Electricity (kWh)		200,208	197,046	188,441			
Gas (GJ)		4,073	4,281	4,289			
Gas (m3)		68,774	57,616	62,489			
Gas (kWh)		654,364	548,199	594,564			
Summary (kWh)		854,572	745,245	783,005			
Electricity 1 kWh/HUF		28.58	25.60	24.12			
Gas 1 kWh/HUF		12.39	12.36	2.24			
Energy Index (kWh/m2/a)		139.18	121.38	127.53			
Annual Cost of Energy consumption			2008	2007	2006		
Electricity (HUF)		5,720,951	5,043,869	4,544,400			
Gas (HUF)		8,106,782	6,777,425	1,331,600			
Others							
Water (HUF)		1,022,400	1,024,771	1,022,400			
Water (m3)		8,523	8,196	7,352			
Summary (HUF)		14,850,133	12,846,065	6,898,400			
Technical specification of meters		Registration number and products name		View			
Electricity		Registration number meter 1:					
Connection #: 954659		Meter #: 20180736100308					
Modem #: 650010600010640		Typus: SL 7000.SL761C 230V 5A					
Gas		Registration number meter 1:					
		Producer:					
Others		Registration number meter 1:					
		Producer:					
Water		Registration number meter 1:					
		Producer:					
Remarks:							
Die SL 7000 Zähler werden von ACTARIS (ITRON) produziert und von Ganz Mérőgyár Kft.in Ungarn vertrieben - erlauben 15 min Ablesezyklus. #							
HU-IM E-Metering equipment:		E-Meters:		Date of Installation: xx th Feb. 2010			
DC: LJ 00037 xxx		Main Building:		ELON021xxx			
CT: ELON 0245 xxx		Workshop:		ELON021 xxx			
		???:		ELON021 xxx			

Key data sheet of "Energy Check"

AIM 4 SMEs

aim 4 SMEs

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AIM 4 SMEs is a Europe-wide project to demonstrate the potential for energy savings from automatic intelligent metering in small/medium-sized enterprises.

The project involves nine partners from five countries (Austria, Hungary, Poland, Portugal and the UK), including businesses, local/regional energy agencies, an association of municipalities, universities and a utility company.

Intelligent Energy  **Europe**

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