

HUNGARY: Batthyány Ilona Fogytékosok Otthona, Dáka (Home for Disabled)

The institute is based on social activities of Duke Louis Batthyány's family which addressed there castle built in 1858 to a home for social handicapped young ladies in 1916. From 1949 the castle was expropriated as a state property and used as a social institution.

Enlargement of capacity by new buildings happen within the last 20 years up to the last enlargement and partly renewal which happen started from 2002 up to 2006.

Capacity of the institute is one of the strongest within Veszprém County: 213 patients are served by 130 social nursery workers.

The institute is equipped with a partly updated kitchen, a laundry with updated washing and ironing machines.

The institution covers protected workshops and pavilions for young handicapped, which are living "family sized" under social guidance. Given by this wide area of services the institution is one of the largest of Veszprems County – with a usable are of 6,527 m2 in total. Of course psychological and medical services with health education will be provided in an excellent quality – as documented by a very detailed web page: <http://www.dakaotthon.hu>

This outstanding service will be enabled by a sponsoring network and a the "Psychiatric Patients and Disabled People Social care Foundation 2.

Installation of ECHELON Data Concentrator with CT main meter

Picture shows installation near transformation station which is serving exclusively electricity supply to the institution



Source: <http://www.dakaotthon.hu/?q=content/film-az-intézményről>

PROJECT SUMMARY

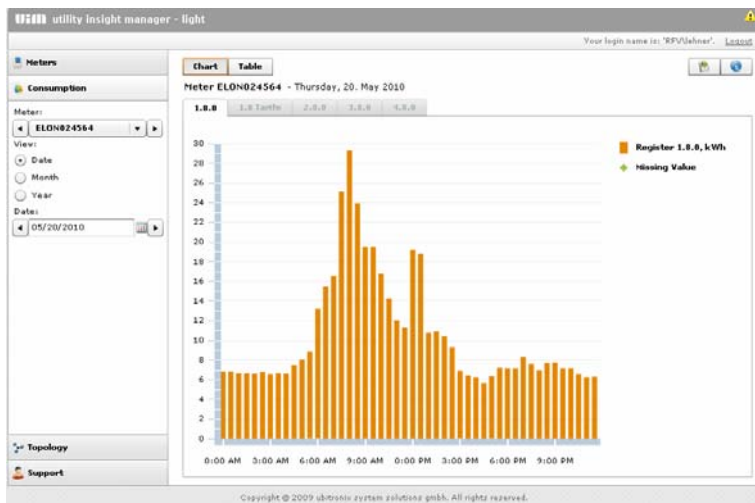
Company name (acronym)	Dáka
First metering installed	17 th December 2009
Baseline consumption (2006 – 2008)	258 kWh/m2/a
Final consumption (2009 – 2010)	
Savings / avoided consumption	About – 18.5 % *)

Saving generated by partly renewal of heating boilers

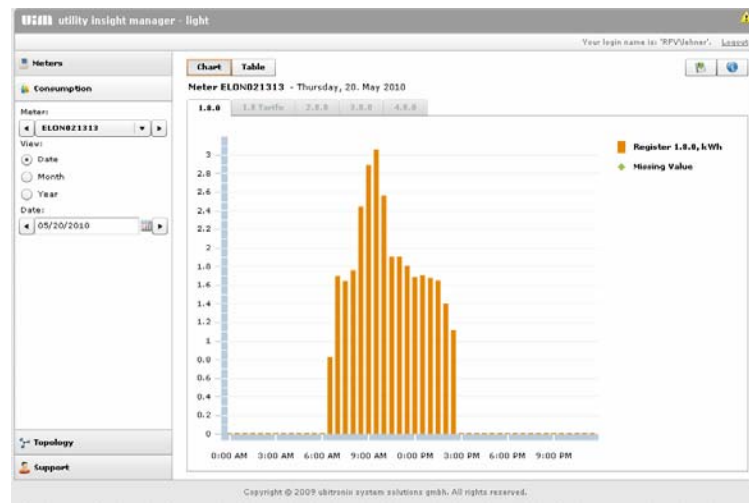
STATUS QUO ANALYSIS

Given by the fact that the last construction activity was happen between 2002 - 06 energy efficiency is slightly better than the average – but a detailed “Energy Audit”, will be needed in any way, because an overall energy audit was not made on occasion of last enlargement of the institution. So parts of the building infrastructure are old / as it is visible by above picture.

Weakness is given as in the other institutions in Veszprém County - in operation of kitchen and laundry equipment which causes peak consumption, and will show concentration of operation starting with 7/8:00 in the morning and be ended with about 15:00 in the afternoon.



Overall electricity consumption 20 May 2010



electricity consumption of laundry

Over all consumption metering and metering of kitchen (given out dated electricity structures, metering of kitchen needs special equipment) by and partly laundry shows this problem clearly. “Standby consumption” over night is slight higher than in the other institutions.

Given by all this detailed reasons, building performance indicator is round 258 kWh/m²/a, reduced by about 18.5 % gas consumption reduction, caused by partly replacement of out dated boilers of the heating system. Heating system of different buildings of the institution will show separate solutions. So fare there is no unified heating system in usage.

NEED FOR INTERVENTIONS

By establishment of an Energy Service Contracting proceeding – via a 3PF tool - update of older parts 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 within last 10 years open for improvement of building structures – so fare they are open for “Energy and Operation Audits” as well.

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

8	Neve épület / Cég		Batthyány Ilona Fogyatékosok Otthona, Dáka (Home for Disabled)	
	Address			
	Street		Dózsa György. u. 80.	
	City		8592 Dáka,	
	Name of Director		<i>First name</i>	<i>Second name</i>
			Ferenc	Hanich
	Contact		<i>Phone</i>	<i>Mobil</i>
			89/340-004	36309986084
	Clerk (HVAC Technician)			
	Neve		<i>First name</i>	<i>Second name</i>
		Imre	Élő	
Contact		<i>Phone</i>	<i>Mobil</i>	
		89/340-004	36203136826	
Building Key/Data		Occupation		
Year of construction:	Renewal 2005-2007	hours per day	24	
Usable Area in m ²	6,527	days per week	7	
Number of users	130+213 Fő	weeks per year	52	
Annual Energy Consumption:		2008	2007	
Electricity (kWh)	171,197	197,699	162,170	
Gas (GJ)	5,381	5,635	5,243	
Gas (m ³ /év)	157,123	164,524	153,091	
Gas (kWh)	1,494,978	1,565,397	1,456,615	
Summary (kWh)	1,666,175	1,763,096	1,618,785	
Energy performance index (kWh/m²/a)	255.27	270.12	248.01	
Annual Costs of Energy consumption		2008	2007	
Electricity (HUF)	7,384,882	7,729,589	5,794,912	
Gas(HUF)	18,987,653	17,268,326	14,961,326	
Summary (HUF)	26,372,535	24,997,915	20,756,238	
Electricity 1 kWh/HUF	43.14	39.10	35.73	
Gas 1 kWh/HUF	12.70	11.03	10.27	
Water (HUF)	4,644,899	3,537,149	3,726,953	
Water (m ³)	11575 m ³	8847 m ³	10394 m ³	
others				
Specification Utility Meters / registration		Fotó		
Villamos energia	<i>Nyilvántartási szám:</i>			
	<i>Gyártó:</i>			
Gáz	<i>Nyilvántartási szám:</i>			
	0001031817			
	<i>Gyártó:</i>			
Egyéb	<i>Nyilvántartási szám:</i>			
	<i>Gyártó:</i>			
Víz	<i>Nyilvántartási szám:</i>			
	<i>Gyártó:</i>			
<i>Remarks:</i>				
Operation started ?				
HU-IM E-Metering equipment:		E-Meters:	Date of Installation: 1 March 2010	
DC: LJ 00038 043		Main Building:	ELON021 294	
CT: ELON 0245 564		Kitchen:	ELON021 311	
		Laundry:	ELON021 313	
		others	ELON021 315 ELON021 332	

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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