

HGD Ltd.

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An overview presentation and information about the Hungarian heat pump market

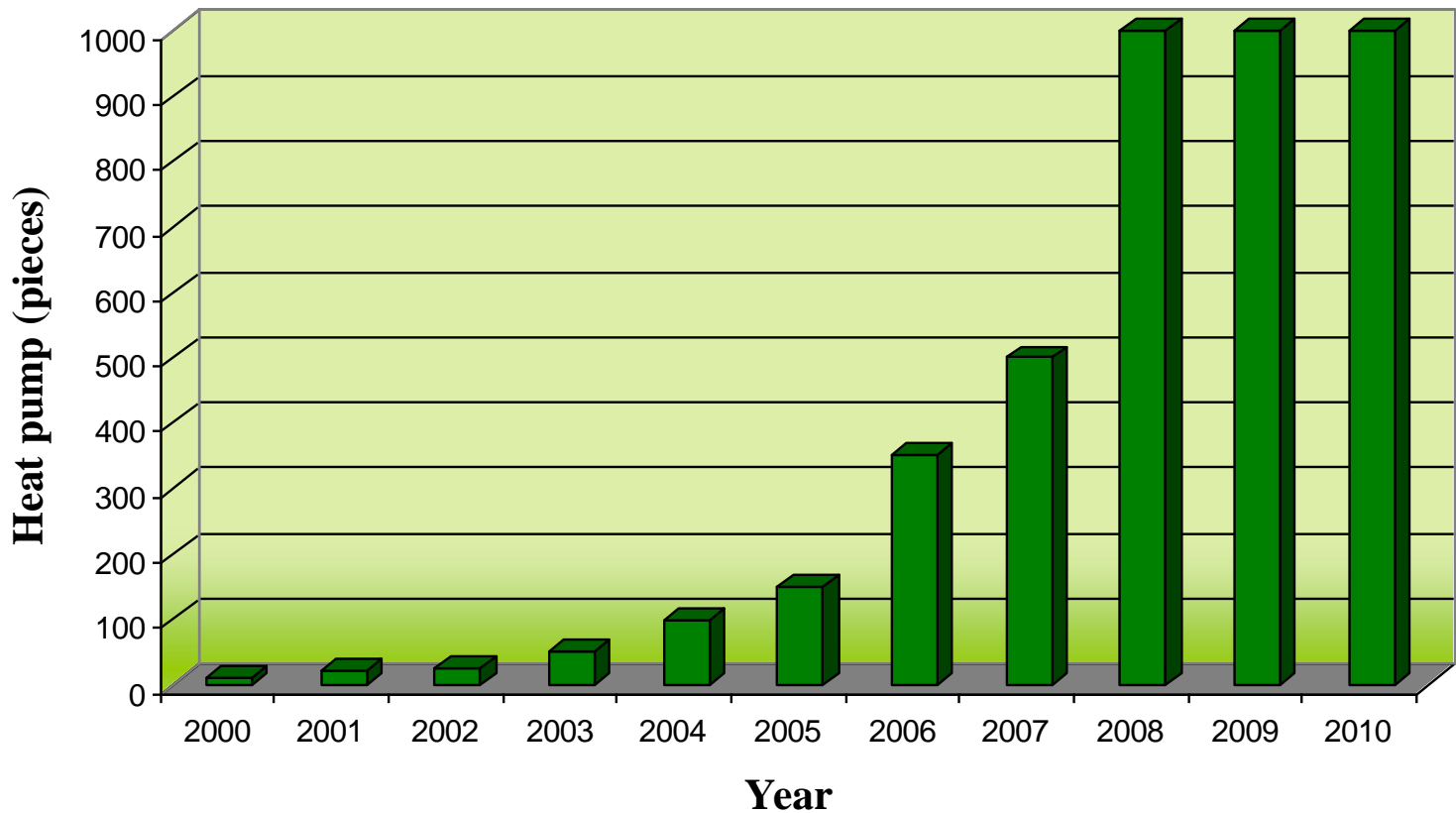
Bela Adam

Hungarian Heat Pump Association, chairman

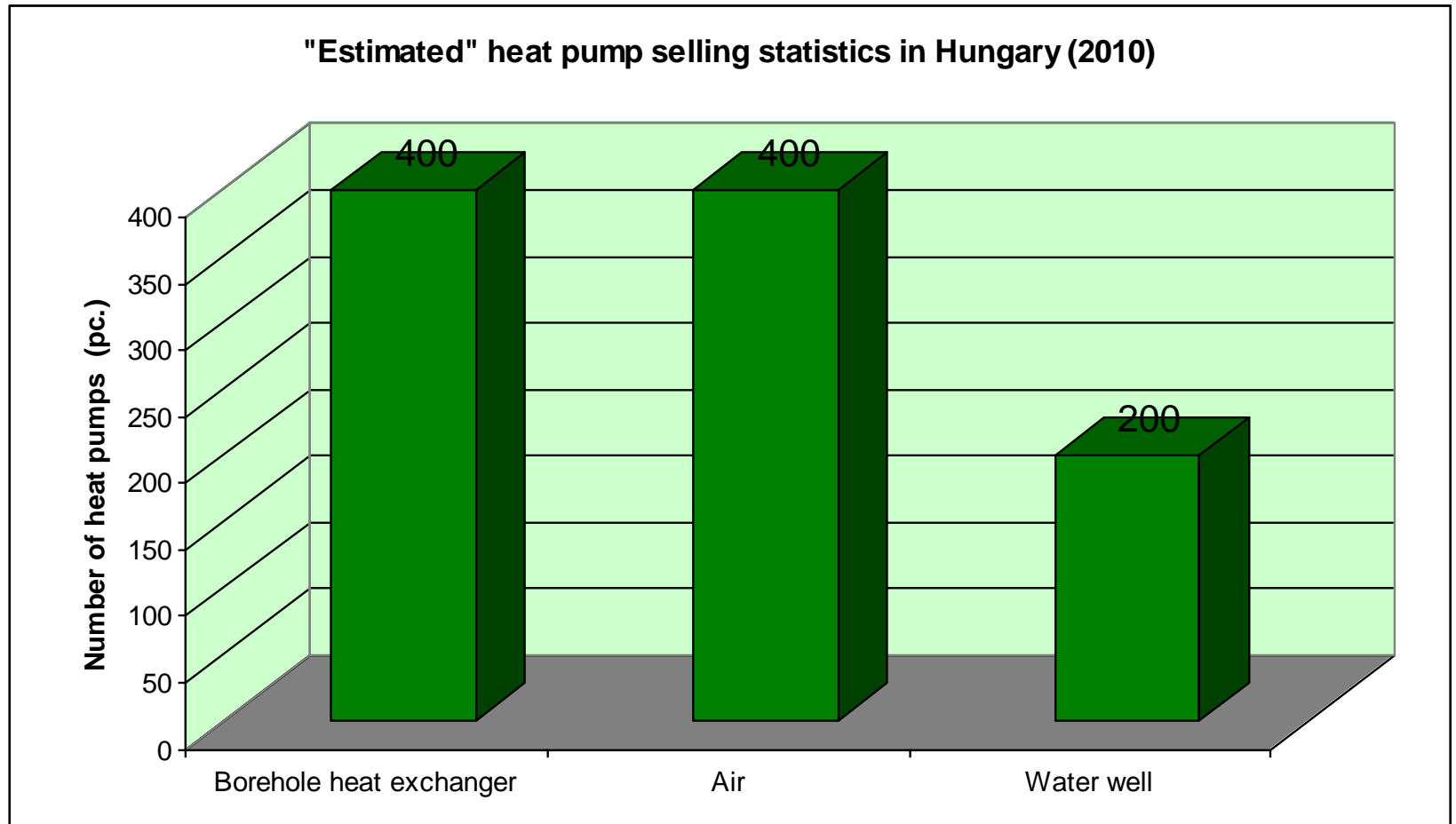
HGD Ltd., managing director

21st March 2011

Hungarian "estimated" heat pump selling statistics (2000-2010)



Ground-, Air- and water-source heat pumps statistics




The largest BHE systems in the EU including 5 Hungarian heat pump projects

Europe	Country	City/Project name	No. BHE	Depth BHE	Total BHE length
1.	NO	Loerensko, SiA hospital*	ca. 300	150 m	ca. 45 000 m
2.	NO	Oslo, Nydalen district	180	200 m	36 000 m
3.	SE	Lund, IKDC	153	230 m	35 190 m
4.	SE	Stockholm, Vällingby Centr. *	133	200 m	26 600 m
5.	SE	Kista, Kista Galleria*	125	200 m	25 000 m
6.	HU	Budapest Pillangó street, Tesco	150	150 m	22 500 m
7.	TR	Istambul, Metro market	168	107 m	18 000 m
8.	HU	Törökbálint, Telenor House	180	100 m	18 000 m
8.	HU	Törökbálint, School and Sport Centr.*	180	100 m	18 000 m
9.	DE	Golm near Potsdam, MPI	160	100 m	16 000 m
10.	SE	Stockholm, Blackeberg area	90	150 m	13 500 m
11.	HU	Budapest Pesti street, Tesco	130	100 m	13 000 m
12.	HU	Páty, Monicomp Ltd., logistics centr.	120	100 m	12 000 m
12.	SE	Örebo, Musikhögskolan	60	200 m	12 000 m
13.	DE	Langen, DFS	154	70 m	10 780 m
14.	CH	Zürich, Grand Hotel Dolder	70	150 m	10 500 m
BHE: Borehole Heat Exchanger			* under construction		

Factors which affect the spread of the ground heat utilization and heat pump technology

- In the MTA Renewable Energy Strategy the utilization of the ground heat and heat pump technology with multiples of current levels:
- Estimated growth of the heat pump market to 2020: 38 close (0,16 PJ – 6,0 PJ)
- New Széchenyi Plan for green technologies: from 14st January 2011
- Increasing energy efficiency in real estate
- Renewable Energy Law
- The tender support system from 1st March 2011 (KEOP) - simplicity, support intensity depends on the energy efficiency
- Green Bank, financing, creation of resident communities interesting (change of the multi-dwelling houses law)
- Revision of energy prices
- „H” heat pump tariff extension to the summer cooling



To this aims: the current tasks of the Hungarian Heat Pump Association

- The elaboration of guideline of the heat pump market regulation for designers, contractors and drillers, pushers
- National education program
- To participate in European heat pump monitoring program (Geo-Power)
- To take over the current principles of the EHPA

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Thanks for your
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