

CECODHAS - Brussels 30 January 2008



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Mayor of the Brno - Nový Lískovec district**



**Brno - Housing regeneration policy and energy
savings achievements**

Housing stock in Brno total

165 366 flats

- municipality 39 905
- cooperatives 24 165
- other owners 101 296

Prefabricated houses (Panel)

65 508 flats

- municipality 20 674 (1996)
- other owners 44 834

Especially located around
city center in 13 districts



1998 – housing policy adopted by City assembly

Priorities

- refurbishment and revitalisation of the neglected municipal housing stock
- Privatisation of the part of housing stock
- Development new housing areas in cooperation with private investors
- Building of the new municipal flats for specific group of inhabitants (seniors, low incomes families)

Measures

- Legislative – rules for privatisation
- Economic – using of the money from rents and privatisation back to the municipal housing refurbishment and development new areas, financial motivation for new owners to repair and modernise their houses
- Organisational – maintenance of the municipal housing stock delegated into district responsibilities

Obstacles

- Insufficient state legislation - low rents, high debts by rentals
- Slow process of privatisation
- Each district can have different approach
- Low incentives from the government

Brno Nový Lískovec – complex approach

1999–2000 planning 2001-2006 implementation

10 municipal houses with 384 flats large scale revitalisation

District own sources	2.5 mil EUR
City of Brno donation	1.5 mil EUR
City of Brno credit	0.5 mil EUR
Commercial loans	2.5 mil EUR
Total investment	6.5 mil EUR



Technical measures

- Thermal insulations of the walls 16-18 cm, new windows, thermal insulations of the roof, modernisation of the heating system and hot water system, new ventilation system, renovation of the core installations (bathroom, toilets, kitchen), renovation of the lifts

Organisational (soft) measures

- Energy management system
- education for inhabitants

Brno - Nový Lískovec, after - versus - before

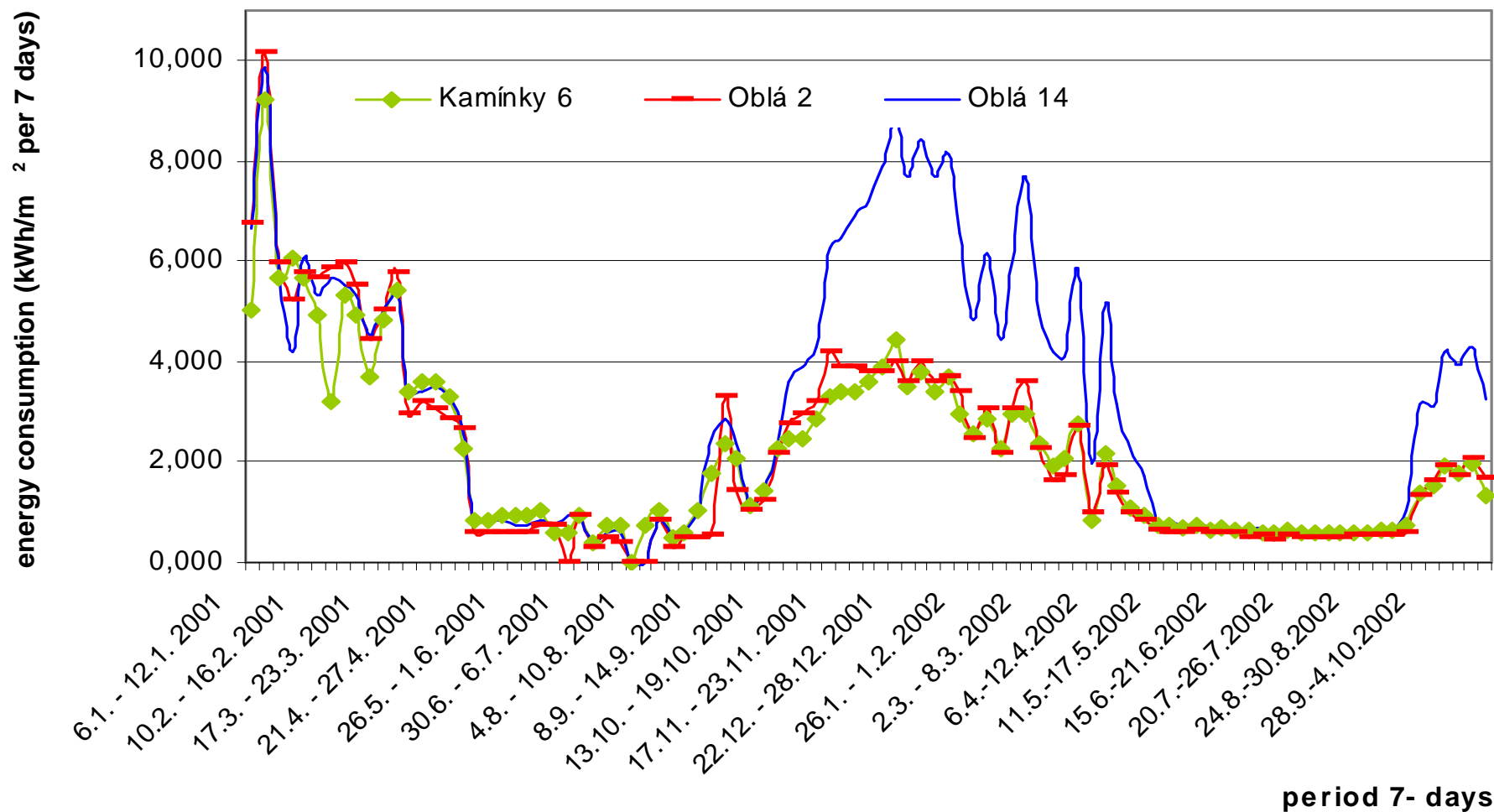


Monitoring of the energy consumption for heating and hot water

objekt	Kaminky 6								
Spotřeba tepla	UT			TV			CELKEM		
	GJ	kWh/m ²	[%]	GJ	kWh/m ²	[%]	GJ	kWh/m ²	[%]
Před realizací úsporných opatření	1141	117,2	100	510	52,4	100	1651	169,6	100
Předpoklad energetického auditu	366	37,6	32	312	32,1	61	678	69,6	41
Rok 2001	963	98,9	84	415	42,6	81	1378	141,6	83
Rok 2002	467	48,0	41	377	38,7	74	844	86,7	51
Rok 2003	436	44,8	38	357	36,7	70	793	81,5	48
Rok 2004	408	41,9	36	351	36,0	69	758	77,9	46
Rok 2005	395	40,6	35	322	33,1	63	717	73,7	43
Rok 2006	357	36,7	31	327	33,6	64	684	70,3	42

Monitoring of the energy consumption for heating and hot water

Monitoring of energy consumption



Total energy savings and cost reduction

10 municipal houses with 384 flats energy savings after complex revitalisation in Nový Lískovec

- 70% energy for heat
- 34% energy for hot water
- 58% both

Energy for heat and hot water savings 11 MJ / Year

Cost reduction (price 2006)

- 191 500 EUR / Year
- 500 EUR /Year / family

Total investment 70 mil eur

Rents 22

City of Brno 29

State 6

Credits 14

8000 flats insulated (45 %), but different technical parameters

In 1998 thermal insulation normally 5 cm

Energy savings rate approx. 20%

In 2007 thermal insulation minimum 10 cm, new windows

Energy savings rate approx. 50%

Thank you

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