

Using ETS (AAU in Czech Republic) funds for building renovation

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Union of Czech and Moravian Housing Co-operatives



Union of Czech and Moravian Housing Cooperatives

- is a special-interest organization of housing cooperatives in the Czech Republic;
- associates legal entities of the same professional orientation;
- represents common interests of its members towards legislative, executive and judicial powers and authorities;
- ➤ elaborates and ensures explications and interpretations of technical spheres related to the general interest of member organizations, and provides for them access to comprehensive and systematic information;
- is one of founding members of the Cooperative Association of the Czech Republic.



Cooperative Association of the Czech Republic



Represents the cooperative sector in ČR – associates 4 cooperative branches

- consumer co-operatives account for 5% of the food retail market turnover and 8% of non-food goods of daily-use retail market turnover
- despite the decline of their share of cultivated land as a result of the transformation of agriculture and the process of restitution, agricultural cooperatives still account for around 37% of share in total area of agricultural land
- producer co-operatives represent the category of small and medium-sized enterprise; they achieved a total turnover of CZK 576 Mio EUR in 2009; they are also the biggest employer of persons with reduced work capacity;
 46 co-operatives of disabled persons employ 3 500 persons with reduced work capacity
- 653 **housing co-operatives** all around the country were associated with the Union. They own and administer about 700 000 housing units which represents 17% of the total housing stock.

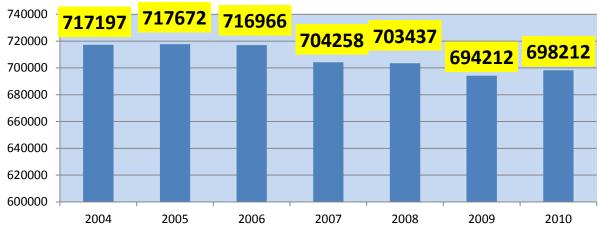


Services provided to member cooperatives

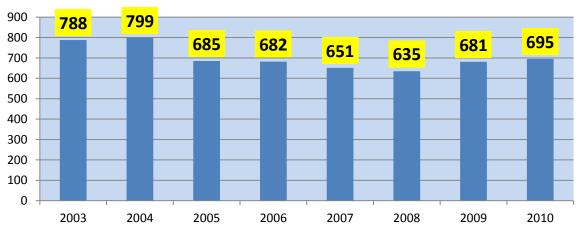
- ➤ Economic sphere advisory services in accounting, taxation, capital investment, generation of funds (repair fund, financial guarantees etc.), assistance in ensuring finance for energy-saving measures, e.g. additional insulation, temperature meters, heat controllers.
- ➤ **Legal sphere** participation in drafting legal rules and regulations. Providing members with information services as to the application of the legislation in everyday practice of housing cooperatives.
- ➤ **Technological sphere** advisory service in construction, maintenance and repair of housing stock of member cooperatives.



Development of managed housing units (by members of SCMBD)

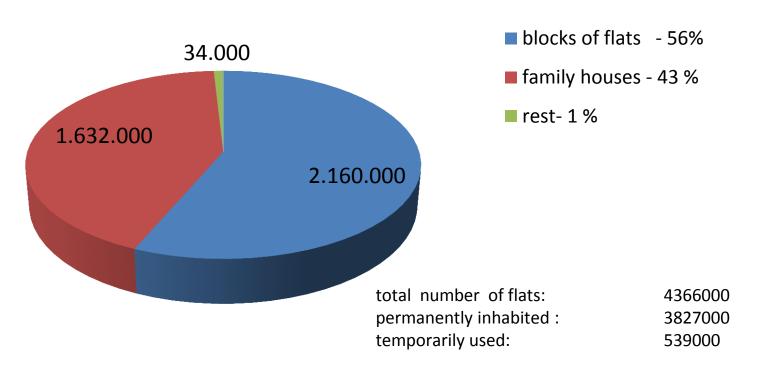


Development of housing cooperatives (number of members of SCMBD)



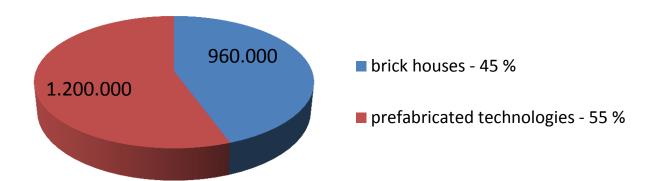


The structure of the housing stock in Czech Republic (1.3.2011)





The structure of the blocks of flats - according to technology total 2 160 000 flats









Status of prefabs – the level of reconstruction of external cladding

Status	In Original Status	After Overall Renovation	Exchange of Windows Only	External Insulation Only
per cent	23	30	33	14

Status of repair or exchange of lifts

Status	After Installation of New Lift	General Repair of the Orig. Lift	In Original Status
per cent	10	29	61

Growth of costs spent on renovation of one flat

	2006	2007	2008	2009	2010
Costs per flat in Eur	7.230	7192	8.269	8.530	8.820









Potential of energy savings and reduction of emissions in housing of Czech Republic

Potential of savings		Housing blocks	Prefab blocks	Green Savings Programme
Number of units		2 160 000	1 200 000	150.000
Heat	(PJ)	37	20	2,5
Heat	(mil. EUR)	529	294	37
Dust	(tons)	1 785	992	124
SO2	(tons)	20 916	11 620	1 452
NOX	(tons)	6 103	3 391	423
CO2	(tons)	1 086	603	75

We assume that before the closure of this programme in 2012 our member cooperatives will be able to utilize subsidies from this programme to a large extent. We estimate that they will repair – taking into account the energy saving plans – approximately 30 – 50 thousand flats annually. Their number can reach 90 – 150 thousand in total.



The programme is financed from the trade of the Assigned Amount Units (AAU). This system of trading with AAUs is similar to the European Union Emissions Trading Scheme (EU ETS)

The AAU is defined by the Kyoto Protocol as a tradable unit of one ton CO2 which may be emitted by a state as greenhouse gases in the period of 2008 – 2012. The state which reduces emissions more than in has committed in the Kyoto Protocol can sell its surplus of units to other states.







The Czech Republic has the right to sell its surplus units thanks to the fact that it reduced its greenhouse emmissions by 24% in 2008 as compared with 1990, after it had committed to 8% reduction in the Kyoto Protocol.

The reduction of greenhouse gases is a consequence of the phase out of the heavy industry – as the main polluter - after the fall of the communism. The Czech Republic had 100 million units available for trading, and has signed four contracts before the end of 2009.



The price for credits is always confidential. However, the Ministry of Environment expects the total revenue from the mentioned tradable (AAU) units to reach approximately one billion eur. As most of you know, trading with AAUs has strict rules. Revenues from credits must be utilized exclusively for financing special projects which contribute to the reduction of greenhouse gases. In the case of the Czech Republic it is the **Green Savings Programme** which was established as a special project for this purpose.







This support is granted as a non-returnable subsidy in different amounts for different measures. The maximum amount is limited by the EU's rules on State Aid. Basic preconditions required for obtaining such subsidy is the commitment in the designed plan to reduce the need of energy for heating under the limit of 55 kWh/m2 per year, and at the same time to reduce the consumption of the heat by 40% at least - after the completion of the reconstruction.







Basic Programme Structure

The programme is divided into three basic subsidised areas:

A. Energy savings in heating

- A.1. Complex insulation
- A.2. Partial thermal insulation

B. Construction in the passive energy standard

- C. Use of renewable energy sources for heating and hot water preparation
- C.1. Replacement of environment-unfriendly heating for low-emission biomass-fired sources and efficient heat pumps
- C.2. Installation of low-emission biomass-fired sources and efficient heat pumps in new buildings
- C.3. Installation of solar-thermal collectors



The amounts of subsidies for housing co-ops from	Unit of subsidy	Amount of subsidy		
the programme		Estimated in EUR		
A.1 Complex insulation (decrease of the need of energy for heating by - at least -	40%)			
Complex insulation (specific heat requirement) <30 kWh.m ⁻² a ⁻¹)	EUR /per m²	58		
Complex insulation (specific heat requirement) <55 kWh.m ⁻² a ⁻¹)	EUR /per m²	40		
A.2 Partial thermal insulation				
Partial thermal insulation— (decrease of the need of energy for heating by - at least 30%)	EUR /per m ²	23		
Partial thermal insulation- (decrease of the need of energy for heating by - at least - 20%)	EUR /per m²	17		
B Construction in the passive energy standard				
block of flats in the passive energy standard	EUR / per unit	5 770		
C Use of renewable energy sources for heating and hot water preparation				
Sources of biomass	Max. EUR / per unit	960		
Installation of low-emission biomass-fired sources and efficient heat pumps in new buildings	Max. EUR / per unit	770		
Installation of solar-thermal collectors for the preparation of hot water	Max. EUR / per unit	960		



The support within the Green Savings Programme has been set up so that the funds can be used throughout the period from the programme's launch until 31 December 2012. Applications for subsidies will be admitted until 30June 2012 or until the programme funds are completely drawn out.







Green savings programme – survey among SČMBD members (Feb. 2010)

	Measure	Number of projects	Estimated budgeted cost
A.1	Complex insulation	1 282	301 mil EUR
A.2	Partial thermal insulation	406	16 mil EUR
C.3	Installation of solar-thermal collectors	172	7 mil EUR
Tota	al	1 860	324 mil EUR

- 25 Oct. 2010 closure of acceptance of applications current resources drawn out; the programme will be reopened if further AAUnits are sold;
- •800 mil EUR was received from the trade of AAUnits
- We assume that before the programme closure one third of co-ops applied
- Before the programme closure 72 000 applications for subsidies were submitted, 6 000 came from housing blocks (about 168 000 flats)

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Not only energy saving, but also repairs and reconstructions

- Static defects of the structures
- Corosion of the armature
- Water leakages
- Occurance of mould or mildew
- Defects of prefabricated parts on balconies and loggias,
- Poor insulation













LIFTS - SAFETY OF OPERATION; SAVINGS







THANK YOU FOR YOUR ATTENTION

Vit Vanicek

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