Founding partners

Energy poverty and the Czech Republic

CZGBC



Senior partners



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Partner



Housing in the Czech Republic

- 10,4m people
- **55 % in multi-family houses**, 43 % in single-family houses

SINGLE FAMILY

1,554,794

APARTMENT

211.252

= 2,416.033 FLATS

BUILDINGS

TOTAL 350,000,000 m²

HOUSES

- 75 % live in owner occupied
- 40 % served by district heating
- Average age of buildings: 52y (MFH)
 49y (SFH)
- Low energy prices
 vs. high share of income on energy expenses

Czech system of social housing

- No definition of energy poverty in Czech legislation
- 652 000 people receive state financial aid on housing
- Some EUR 455m in 2015
 - 60% on energy expenses

Year	Expenses (bn CZK)	Number of recepients (households)		
2012	7,4	206 071		
2013	10,2 +66 %	259 543		
2014	12,1	297 021		
2015	12,3	291 431		

Bad experience – social housing as a business

- Many subjects providing "social" housing exploit the generous system
- The level of support does not reflect the quality of housing provided



Results:

- Significant increase in state expenses in last 4 years
- 60 % of ppl receiving state aid live in lodging houses in substandard conditions
- Socially excluded areas (ghettos) were formed

New Social Housing Bill (proposal)

- Municipalities to be responsible for providing social housing
 - Using own or contracted apartments
 - Great opportunity to set minimal standards
- Our aim:
 - to involve energy efficiency standards into the minimal requirements
 - to shape conditions of the state suport in favour of higher energy efficiency standards
- To be decided this year (?)



Situation in Czech Republic

CHANCE FOR BUILDINGS

	Single family houses	Appartment buildings	Public Duildings	Commercial	
Renovation in Prague	New green savings programme	New green savings programme	OP Environment OP Prague		
Renovation out of Prague	New green savings programme	Integrated Regional OP	OP Environment	OP Enterpreneurship and Innovation for Competitiveness	
New building	New green savings programme	New green savings programme	OP Environment	OP Enterpreneurship and Innovation for Competitiveness	
Replacing sources	OP Environment Priority Axis 2 New green savings programme	Integrated Regional OP New green savings programme	OP Environment	OP Enterpreneurship and Innovation for Competitiveness	
Others		Panel Jessica	Efekt	Efekt	

Subsidy programmes in the Czech Republic

- Fragmented (6+ programmes)
 - Type of the building
 - Type of the owner
 - Type of the measure (renovation/construction/source replacement)
 - Location
 - Various responsible institutions
 - Different conditions and level of support
- Significantly varying results



The New Green Savings

- The most popular programme continuous call (2015-2021)
- Supporting SFHs (+MFHs in Prague) renovation and construction with subsidies. For both individual and legal entities
- Several levels of support depending on depth of renovation or quality of new construction
 - Supporting also single measures (e.g. windows replacement)
- Subsidies also for the use of RES, greenroofs or wastewater heat recovery
- Allocation: up to CZK 20bn depending on EU-ETS revenues



The New Green Savings – closer look

- Since 2014 more than EUR 150m (CZK 4bn)
- 18357 projects -> on average 8400 EUR per project
 - 32 % shallow renovation, 46 % complex deep renovation,
- Subsidy levels depending on the depth of renovation:
 - Covering on average 30-40 % of eligible costs
 - Envelope insulation: EUR 18-30,- /m2
 - Windows: EUR 78-140,-/m2
 - Floors: EUR 26-45,-/m2
 - Ceiling: EUR 12-21,- /m2
 - Boilers, heat-pumps, solar panels: up to EUR 3700,-



Nová

úsp

zelená

Integrated Regional Operational Programme

- SO 2.5: Improving energy performance in the housing sector
- Supporting MFHs renovation and construction
- Popular among municipalities (23%) and condominiums (66%)
- Current round (2016-2017):
 - Allocation EUR 117m
 - 350 applications, subsidy EUR 25,5m -> on average EUR 72 000 per project
 - Covering up to 40% of eligible costs depending on the depth of renovation
- Total expectations: 2000 MFHs renovations over 28 000 units



Operational Programme Environment (2014-2020)

- SO 2.1: To reduce emissions from domestic heating contributing to population's exposure to excessive concentrations of pollutants
- Subsidy for the replacement of obsolete solid fuel combustion facilities with new environmentally friendly methods of heating
- Allocation: 3x EUR 110m (CZK 3bn)
 - In 2016 25 000 applicants
 - Covering 70-80% of costs up to EUR 5500



Example

- Partial SFH reno (envelope)
- Total costs: EUR 14 000
- Subsidy: 40% + project



Savings:	Konstrukce	Původní stav	Zateplení Fasády		Zateplení Střechy		Zateplení Střechy + Fasády	
62 %		U (W/m2K)	Tloušťka izolace (mm)	U (W/m2K)	Tloušťka izolace (mm)	U (W/m2K)	Tloušťka izolace (mm)	U (W/m2K)
S N t V N ú	Fasáda	1,37	180 mm FKD S	0,18			180 mm FKD S	0,18
	Střecha	0,31			200 mm Unifit 032	0,14	200 mm Unifit 032	0,14
	Měrná potřeba tepla na vytápění	124 kWh/m2a	Úspora 29%	87 kWh/m2a	Úspora 26%	92 kWh/m2a	Úspora 62%	47 kWh/m2a
	Náklady na úsporná opatření	2	190 000 Kč		198 000 Kč		388 000 Kč	
	Dotace	12	Dotace 56 700 Kč + 8 500 Kč dotace na projekt		Dotace 59 400 Kč + 8 900 Kč dotace na projekt		Dotace 155 000 Kč + 23 000 Kč dotace na projekt	

Founding partners

Thank you for attention!

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Chance for Buildings is an alliance by leading trade associations that supports energy efficient construction. It brings together **Czech Green Building Council**, **Passive House Centre**, **Mineral Insulation Manufacturers Association**, **EPS Association** and **Energy Service Providers Association**. It represents over 300 companies across the entire value chain of building construction and renovation. Chance for Buildings aspires to reap the crucial societal benefits of energy efficient buildings. We advocate for favourable policy and economic incentives, including proper implementation of relevant EU directives in the Czech Republic.

CENTRUM PASIVNÍHO DOMU

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