Rolf Bastiaanssen Piotr Zietara

March 14th, Brussels

Preliminary results of a survey among national housing associations

Energy refurbishment for sustainable SOCIAL, PUBLIC AND COOPERATIVE

HOUSING

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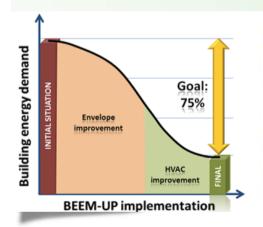


Bax & Willems Consulting Venturing

Research to Market

- ✓ Open Innovation consultants specialised in technology-driven innovation
- ✓ Setting up the strategy and financing of renovation projects

BEEM-UP: Massive market uptake of deep retrofit solutions















Market insights to support policy & programme development

- Energy refurbishment is a major opportunity in energy demand reduction and job creation
- The social, public and cooperative (SPC) housing sector is a key actor of large-scale energy renovation
- Limited / no data data available to support and target policies and programmes
- This survey aims to provide some insight in long-term trends







Methodology

- Questionnaire and telephone interviews of national SPC housing associations
- Covering 60% of EU-27
- Supported by data from the BEEM-UP project

The survey reflects best estimates by experts at time of the interview, does not reflect the formal position of participating experts, nor organization they represent







Unlocking potential for energy savings in SPC housing

- 80% of buildings in 2050 are already built
- 75% energy demand reduction can be reached cost-effectively*
- SPC housing can drive transition of European buildings
 2-3% of all EU energy consumption is in SPC heating & cooling

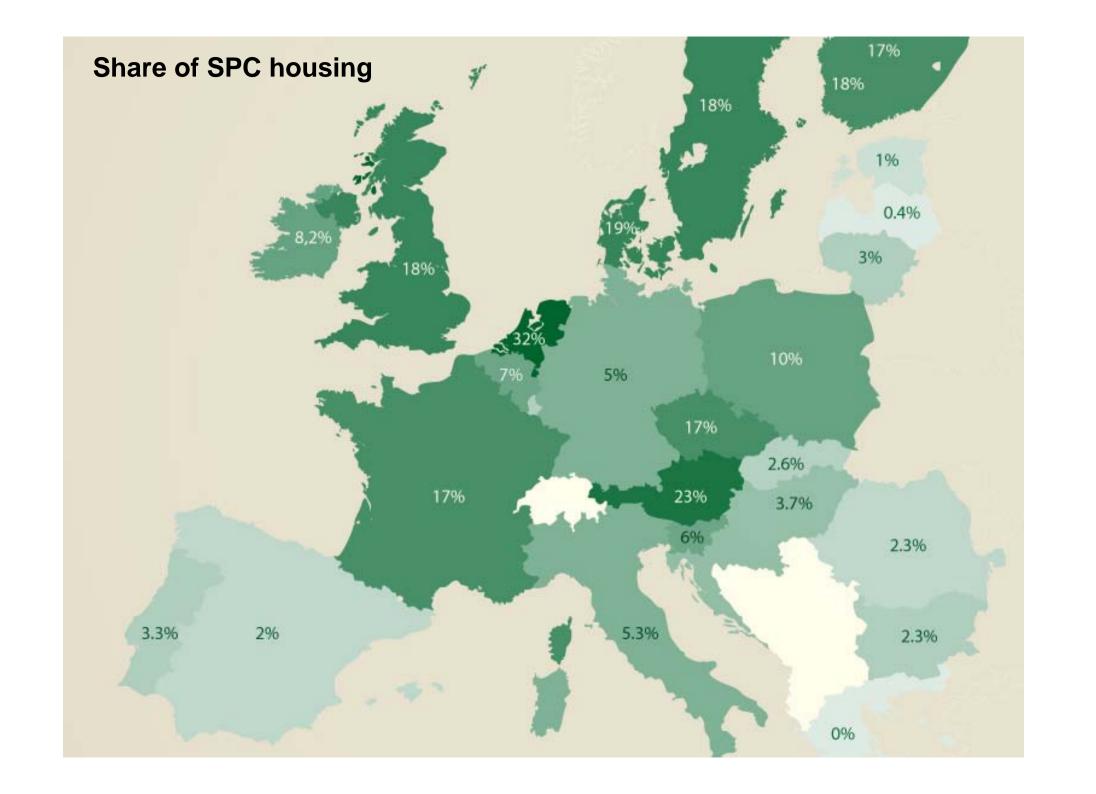
Long term investment horizons, technical ability, socio - economic drive and scalability potential, 12% of all EU housing stock

* www.beem-up.eu









Renovations 2013 - 2020









Annual investments 2013 - 2020

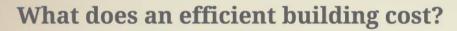


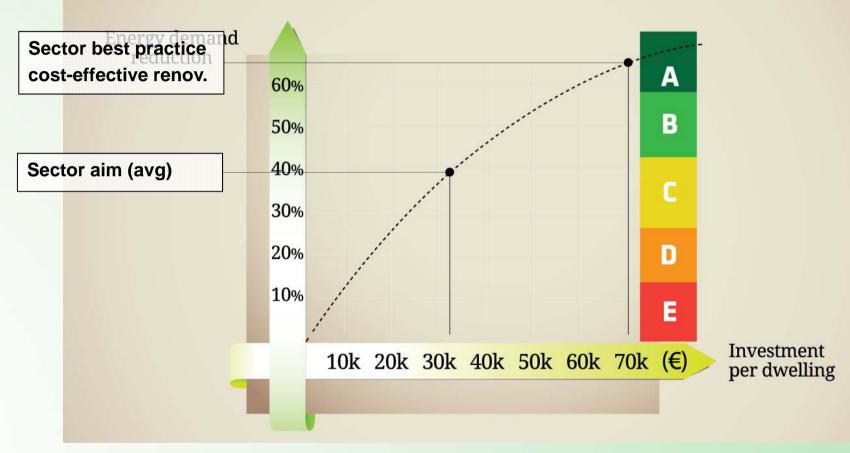






Energy demand reduction





* B&W elaboration based on BEEM-UP





2020: Forecast vs. policy ambitions

SPC housing forecast

- 1,39% refurbished each year
- Average reduction in energy demand of 40%
- Invests €13,6B per year
- Policy ambition: 20% energy reduction target by 2020
 - 2% refurbished each year
 - Average reduction in energy demand of 65%
 - Requires est €37,8B per year

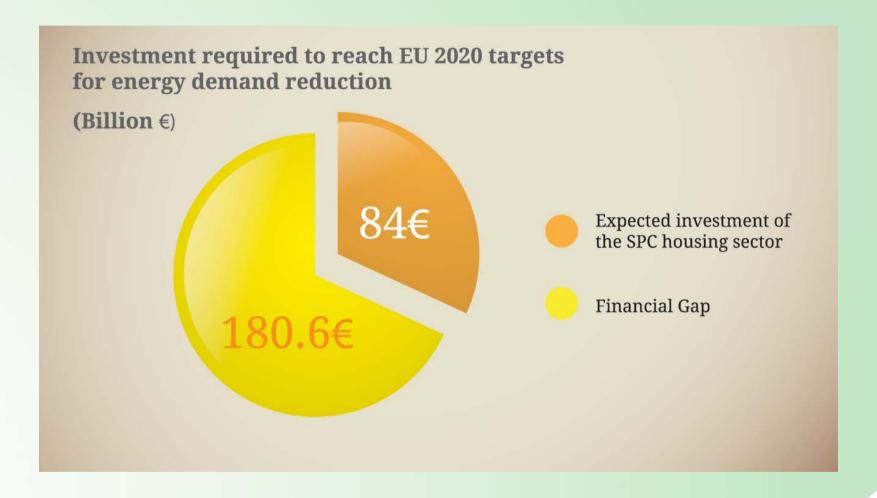








Financing gap









Impact of aiming for 2020 targets*

Cost-effective abatement of CO₂ emissions

Additional 9.9 million ton of CO₂ reduction, or €163.3 million savings (EU Trading Scheme)

Higher employment

Additional 668,841 permanent jobs (directly and indirectly)

Improved health

Lower incidence of diseases, lower mortality rates, improved quality of live, higher productivity







^{*} Based on standard indicators

Next steps?

- Report to be finalised in April
- Relevant questions outstanding "room for improvement"
 - Reach building owners, not associations, n = >100, coverage >10% of dwellings
 - Data quality (# buildings, energy label, planned v forecasted investment)
 - Scope: Current cost of capital, financing structures







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Julien Dijol

March 14th, Brussels

Policy recommendations

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What can be done?

European Housing Fund

Facilitate low-cost, long-term financing of investments in retrofitting in housing

Reduce threshold to access financing

Many SPC entities invest in €10-25M range

Continue ELENA grants for technical support

- Current technical capacity limited in SPC companies
- ELENA successful in mobilising major and more ambitious renovations







Non-financing ideas

- Appraisals of 'green investments'
 - Green investments not properly valued; asset-backed investments limited
- Training for housing professionals;
 - financial engineering and retrofitting project management
- Applied research
 - Low-costs technologies for the improvement of energy efficiency and renewable energies in housing. Focus on prefabricated modules





