Energy efficiency as a tool for reducing energy poverty

CENTER FOR CLIMATE CHANGE AND SUSTAINABLE ENERGY POLICY



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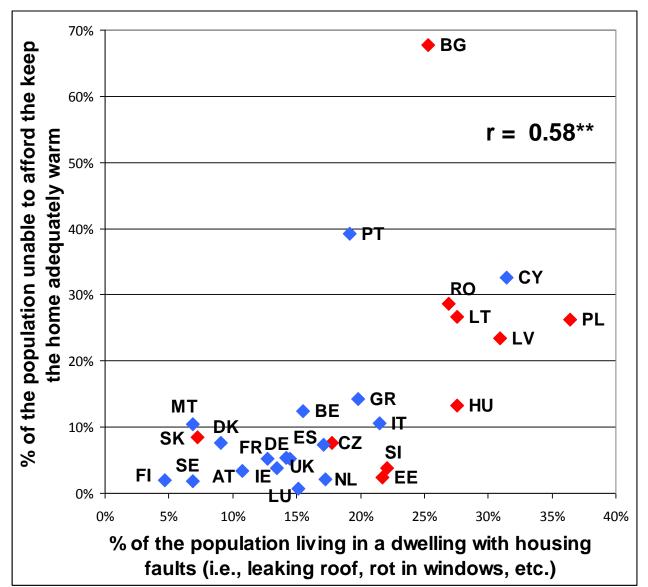
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What is energy (or fuel) poverty?

- Inability to afford an adequate provision of energy services (often heating)
- However, reducing thermal comfort is only one of the solutions adopted by affected households...
 - reducing the consumption of other basic goods and services (e.g., education or food);
 - reducing the fraction of the floor area heated;
 - fuel switch (e.g., from natural gas to firewood, a less convenient but cheaper fuel);
 - payment arrears and increased indebtedness with energy suppliers; and
 - electricity theft and illegal firewood collection



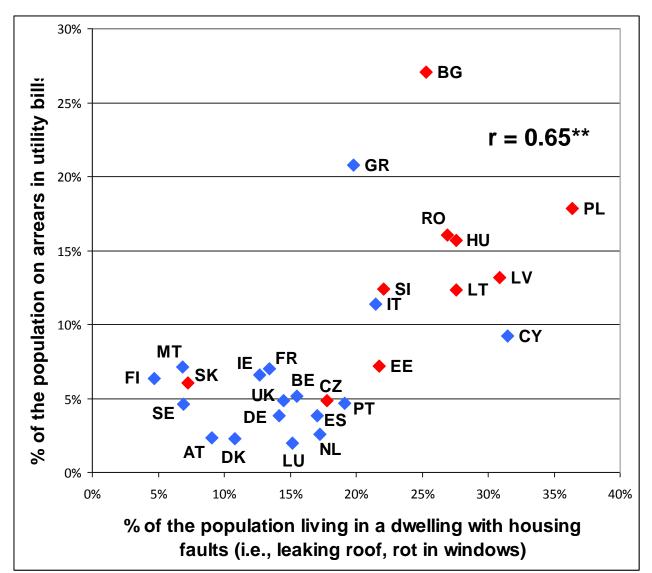
The energy performance of dwellings



Inability to afford to keep the house adequately warm



The energy performance of dwellings



Arrears in utility bills

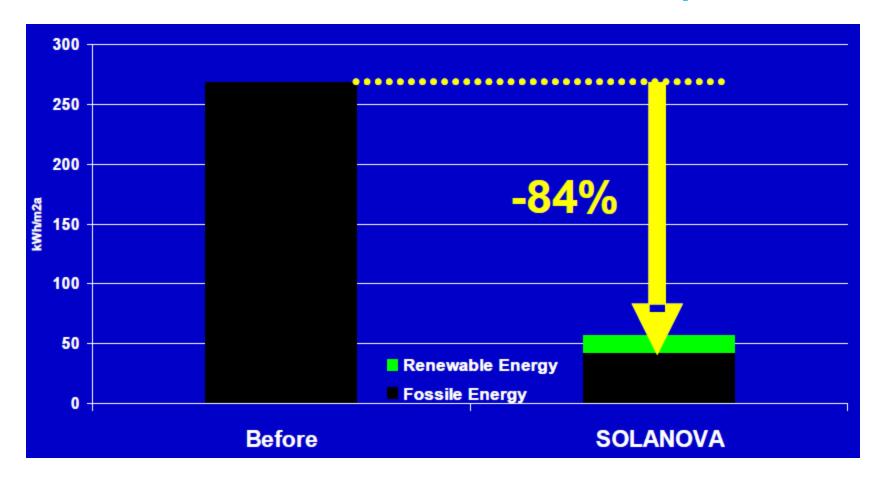


The SOLANOVA example



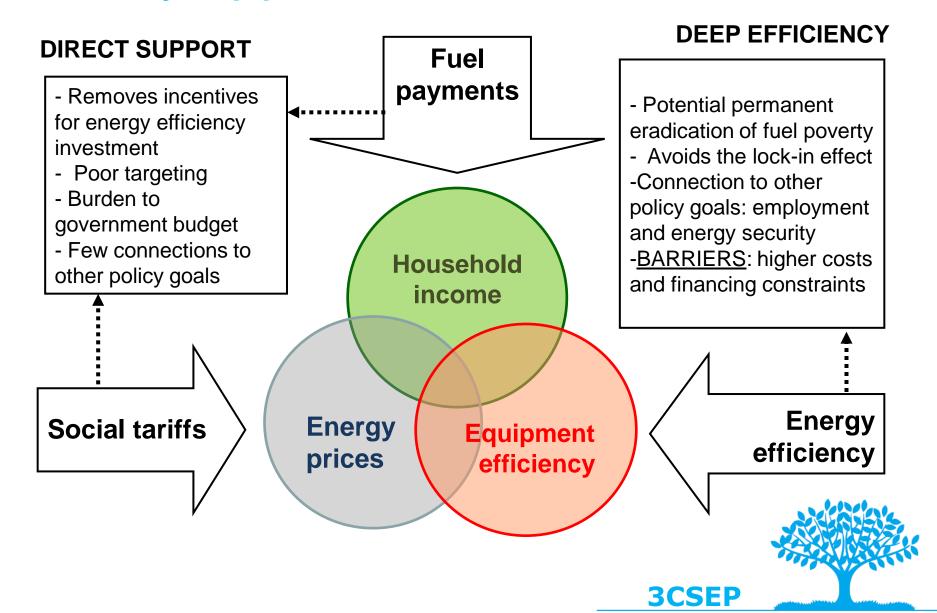


The SOLANOVA example





Policy approaches to EP alleviation



Conclusions

- Deep EE retrofits are a key tool to jointly solve the energy poverty and climate change challenges
 - □ Protection of vulnerable households from further increases in real energy prices (e.g., carbon tax)
- Wider positive welfare and economic development impacts CO-BENEFITS
 - New markets, net employment, energy security
- From financial analysis to social analysis
 - □ Pay-as-you-save schemes + public support through careful subsidies

Thank you for your attention

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Find this presentation and additional material at... http://3csep.ceu.hu/projects/fuel-poverty-in-hungary