



20th session of the Steering Committee of the Energy Efficiency 21 (EE21) Project



"Energy efficiency in housing"

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Impacts of low thermal efficiency in housing in the UNECE region

- Buildings responsible for 40-45 % of energy consumption
- Environment: High contribution to carbon dioxide emissions
- Social impacts (lower income groups): little district heating or dirty fuels
- Economic impacts: Reduction of national dependency on energy imports





- It is estimated that 57% of emissions are from burning fossil fuels in power, transport building and industry (Stern, 2007).
- 30-40% of all primary energy is used in buildings
- Expected to grow 70% between 200 and 2050
- Another 8% should be added to reflect emissions due to direct combustion of fossil fuels
- Land use changes account for a very high proportion, almost 7 % of global emissions



(Stern, 2007).





- In EU, the residential sector represented 77% of all CO2 emissions from buildings in 2002.
- Largest cost-effective savings potential lies in the residential (households) and commercial buildings sector.
- There is a global potential to reduce approximately 29% of the projected baseline emissions by 2020 cost-effectively in the residential and commercial sectors, the highest among all sectors (...)
 " (IPCC 2007, p. 389.)





- **Improvement of energy performance in the existing housing stock**
- Improvement programmes show an average reduction of energy consumption of 50 to 60 %
- While some countries have carried out impressive programmes, others are still lagging behind.
- **WHY?**
- Unclear responsibilities and insufficient financing.
- Weak local construction industries.
- Weak or non-existing public and/or private research and development activities.
- Lack of knowledge.





Work of Committee on Housing and Land Management

First workshop on energy efficiency in housing

21-22 April, Sofia, Bulgaria



www.ee-housing.com

Programme, speakers, presentations and background paper





Climate Neutral Cities

23 September 2009

As part of the 70th session of the CHLM



Session I

Approach of cities to sustainable land management and mitigation of climate change

Session II

Green building and reduction of emissions in buildings





Second workshop on energy efficiency in housing

23-25 November, Vienna, Austria

www.energy-housing.net



Towards an Action Plan for Energy Efficient Housing in the UNECE region

deutsch
english



Let's work together at making cities more climate friendly.
See you in Geneva on 23 September!

Let's work together to develop the Action Plan on Energy Efficiency in housing for the UNECE region. See you in Vienna on 23-25 November!





Thank you!

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