



# **Activities of the UNECE Committee on Housing and Land Management in energy efficiency in housing**

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# Energy efficiency steps

2009



Green Homes

2010



UNECE Action Plan

2011



National Action Plan

2013



Good practices

**Regional workshops**  
Minsk (2011), Tbilisi (2013)

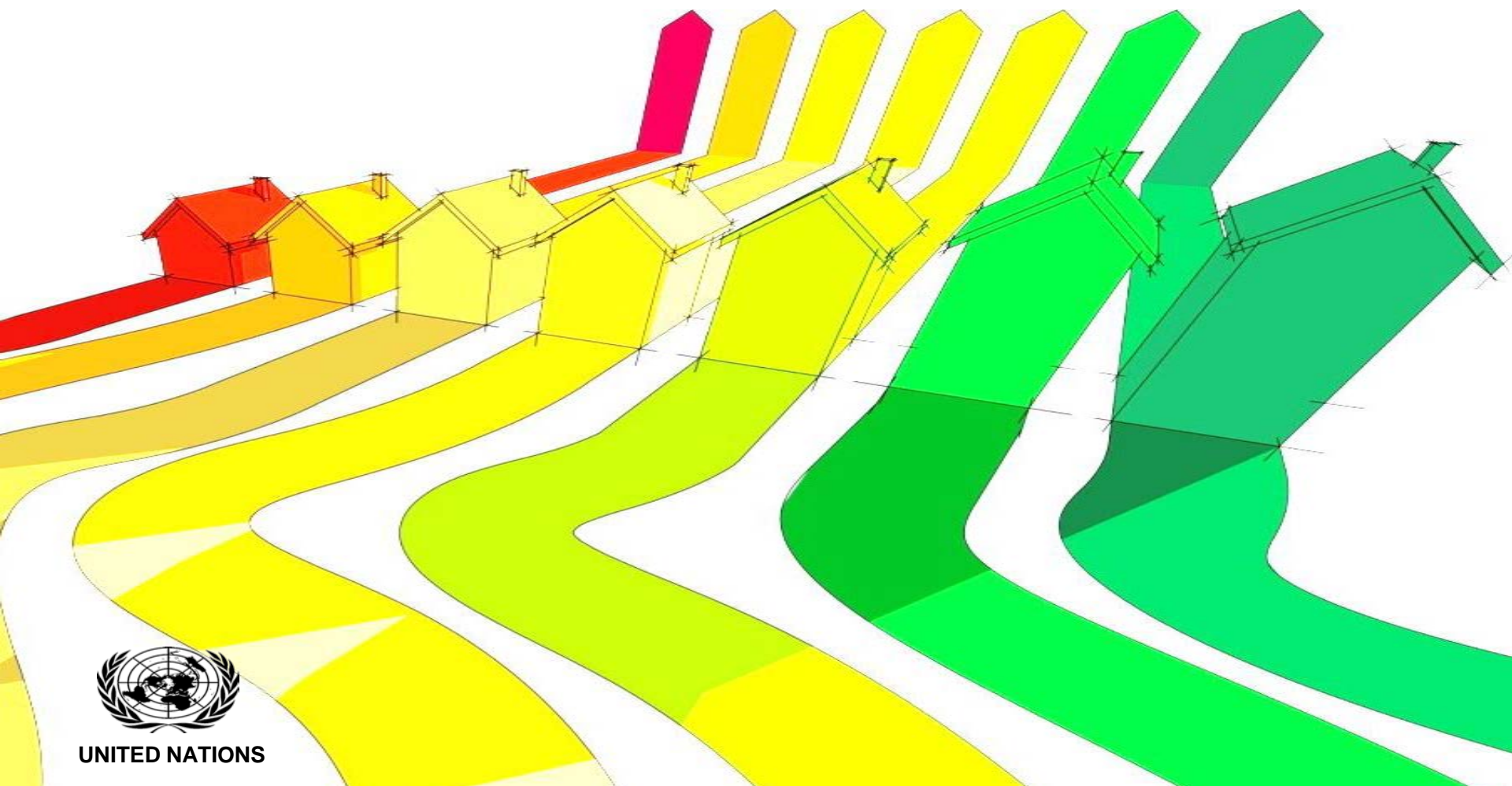
**- National workshops**

**- Informal network of partners and experts**



# GOOD PRACTICES

FOR ENERGY-EFFICIENT HOUSING IN THE UNECE REGION



UNITED NATIONS

A joint effort of **UNECE**, **UN-Habitat** and the **City of Vienna**, this report builds on existing work in the area, such as the Action Plan for Energy-Efficient Housing in the UNECE Region issued by UNECE in 2011.

**The objective** of this follow-up report is to provide practical examples on means of implementation.

Examples include **case studies** from the UN-Habitat Best Practices Centre for Central and Eastern Europe in Vienna and case studies specifically prepared for this publication. These case studies are practical, short and illustrative, with innovative ideas presented to facilitate the exchange of good practice.



City of  Vienna

UN  HABITAT

# ***Case studies in a nutshell***

## Legislative framework

- Energy saving and energy efficiency laws of the **Russian Federation**
- National plan for energy transformation in **Germany**
- Legislation framework for energy saving and energy efficiency enhancement in other countries of **Eastern Europe**
- Energy saving and energy efficiency enhancement in **Central Asia and the Caucasus**

# *Case studies in a nutshell*

## Building management

- Management and maintenance of the **Slovak** housing stock
- Developing energy efficiency traditions in the **Estonian** housing sector
- Energy-efficient housing pilot project in **Lithuania**
- Energy-efficiency enhancement as a result of professional property management in **Latvia**



Homeowner Associations



# *Case studies in a nutshell*

## Financial mechanisms

- Allowances to low-income people to compensate renovation costs
- Subsidies for technical expert examination and energy audit of residential buildings
- Subsidies for apartment building renovation depending on level of energy savings
- Loans originated by state financial institutions

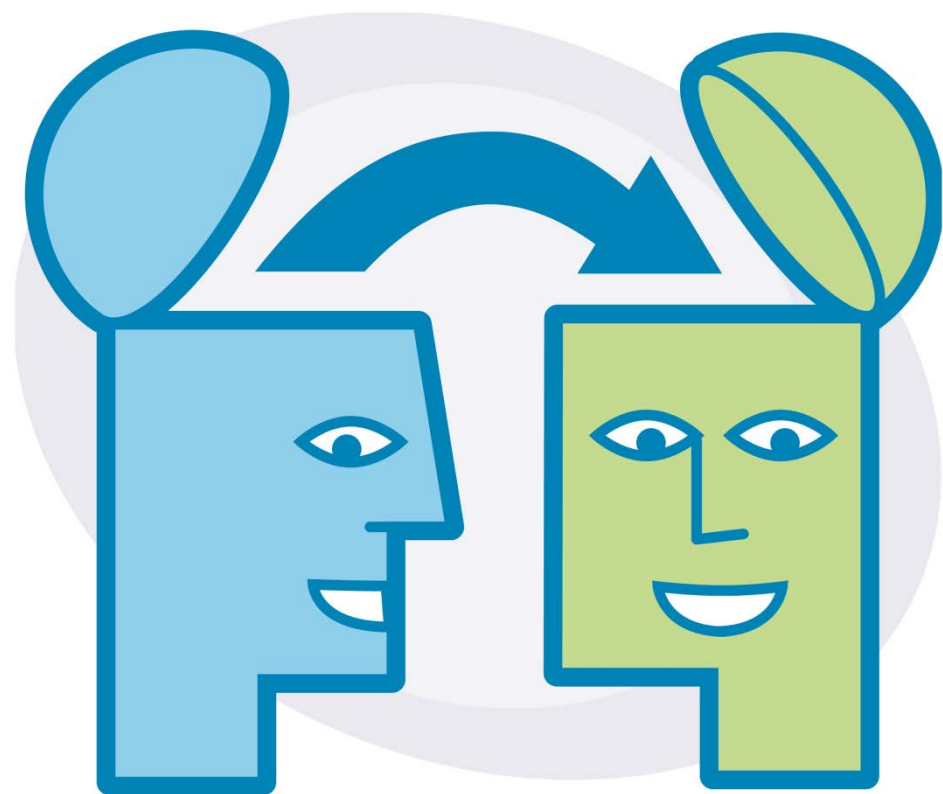


# ***Key messages and transfers for transition countries***

Recommendations from the casebook address **social, environmental, economic, legislative, financial and technical instructions** in the view of attaining holistic sustainable development in developing countries.

For example, the casebook offers messages regarding:

- **Political will and commitment**
- **Public awareness about energy consumption**
- **Residents control over their energy bills**
- **Renovation targets**
- **Alternative to building renovation**
- **Costs of energy efficiency**
- **Bankable investments**
- **Managing buildings**
- **Support measures at the transition period**





# Ongoing activities – capacity building

- Exhibition “Greener and smarter homes: energy efficiency in buildings”, 15 September – 10 October 2014
  - Workshops on energy efficient and affordable housing in Albania, July 2014
  - Energy efficiency sessions as part of annual workshops, 2014-2016
    - Armenia,
    - Republic of Moldova,
    - Serbia and
    - Tajikistan
- as a part of the UNECE - UN-Habitat UNDA project
- 
- The logo consists of a rounded rectangular box with a light green background. It is divided into two horizontal sections. The top section contains the text "Switch On" in a bold, sans-serif font, with a power button icon to the right of "On". The bottom section contains the text "Switch Off" in a bold, sans-serif font, with a power button icon to the right of "Off".
- A regional workshop on energy efficiency in housing during the Fifth Energy Forum (in cooperation with the Sustainable Energy Division), 4 – 6 November 2014, Tunisia

## **Planned activities – a study on building codes and standards with a focus on energy efficiency**

- **A proposal for developing a study on standards (ECE/HBP/2014/4), which has been adopted by the 75<sup>th</sup> session of the Committee**
- **Establishment of a UNECE Task Force (as an informal network of experts) on building codes and standards related to energy efficiency in buildings, including manufacturing of building materials and energy performance requirements**



# **Expected outcome of the study on building codes and standards with a focus on energy efficiency**

- The launching of work on standards for energy efficiency in buildings, to include at least one standard that is also related to the use of building materials**
- The identification of other possible standards for sustainable buildings, beyond energy efficiency, and as identified by the expert group. These could include standards for the resilience of buildings to natural disasters and other construction codes to support smart cities, healthy and barrier-free housing.**

