





"Improving Energy Efficiency in Buildings"
Project

Armenian Case Study

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Country Details

Area - 29.800 m2

Population - 3.2 mln

■ 65% - living in cities

40% of energy saving potential is in building sector (402,000 toe)

■ The climate in Armenia is continental. Average annual temperature is 5.5°C, average winter temperature is -6.7°C

The absolute min -42°C

The absolute max +43°C

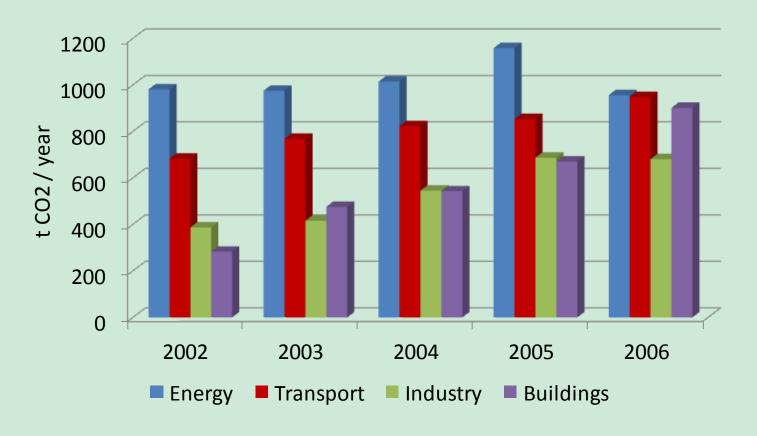


Armenian Building Stock

- Building stock is over 85 mln m2, including around 21 thousand multi-apartment buildings (27mln m2, 430,000 apartments
- 53% of multi-apartment buildings located in the capital city
- Most of the stock was built 30-60 years ago (as in most of CIS countries)
- Vast majority of the buildings were designed and built without having energy efficiency in mind, thus envelopes' thermal characteristics are significantly lower than required by current code.



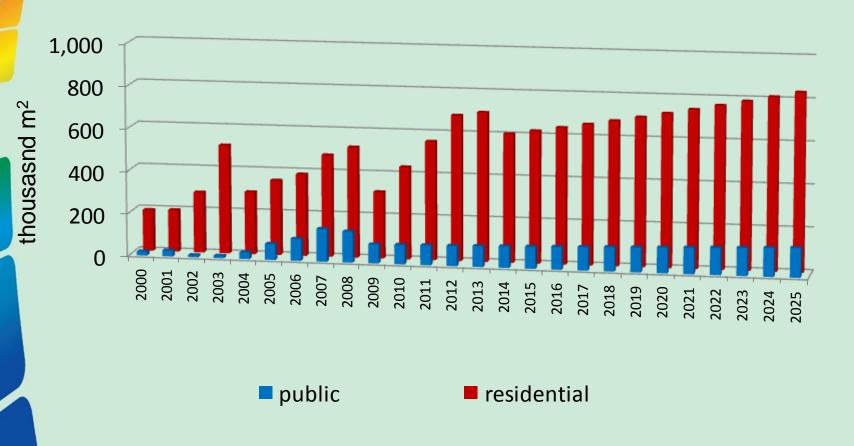
GHG Emissions By Sectors



*Source: Second National Communication to UNFCCC on Climate Change



Dynamics and forecast of building sector growth in Armenia





Baseline Situation in the Sector

- 2004 Law on Energy Efficiency and Renewable Energy – no targets, no limitations, voluntary basis, no MEPS, no privileges
- 1995 EE Building Code weak enforcement and control, never updated, no certification and no building energy passports
- 2006 Governmental Decree on "Energy Audit Performing Procedure" - buildings' energy audit is not mentioned
- 2013- Governmental Decree N225-N envisaged change in the charter of Ministry of Urban Development adding requirement to ensure energy efficiency and energy saving in the sector



Project Activities on Making EE in Building Sector Attractive

Assisting in:

- Improvement of legal framework: introducing EE requirements, MEPS, shifting from voluntary principle to mandatory, introducing new standards
- Improvement of the market share of EE services and materials
- Capacity building of the architects and constructors
- Awareness raising of targeted groups and general public
- Showcasing benefits of EE through demonstration projects: building partnership and attraction of financing



Project Assistance in Improvement of Legal Framework in Building Sector

- Amendments to the RA Laws "On Urban Development" and "On Energy Saving and Renewable Energy" is under consideration
- "Buildings, structures, construction materials: Safety" technical regulation was drafted and submitted to the RA Government; approval is pending from 2013
- "Buildings' Energy Passport and EE Label" -National Standard was developed and registered in 2013
- "Energy Performance in Buildings" EU Directive and 6 supporting standards adapted approval is pending
- Manual on "Technical solutions for thermal insulation of

预览已结束, 完整报告链接和二维码如下:

https://www.yunbaogao.cn/report/index/report?reportId=5_5499

