











Context

Energy poverty of people living in multi-unit residential buildings is a housing issue which affects a great number of people in this region.













Structure of Housing Stock

- Much of the existing housing stock dates back to 1950s-1970s
- Mostly pre-fabricated multi-story apartment buildings -in some countries representing 30%, in some more than 70% of the housing stock
- After the privatization of 1990s, 90%+ of dwellings are privately owned
- Residential heating accounts for more than 40 % of total country's energy use









Challenges to Renovate the multi-apartment buildings

- Poor management and maintenance
- Limited access to finance
- Low income levels
- Lack of awareness/demand for EE products
- Lack of incentive due to low, subsidized energy prices
- Insufficient legal and regulatory support/environment
- Lack of mechanism de-risking the loans
- Need to restructuring subsidies to target only low-income households











Social Impacts

 Huge energy consumption of residential buildings leads to high energy bills relative to income and therefore comtribute to energy poverty

 Low income consumers in residential buildings will be able to afford the market price of energy only if the consumption of their building can be reduced.

The best to do this is energy efficiency retrofitting.



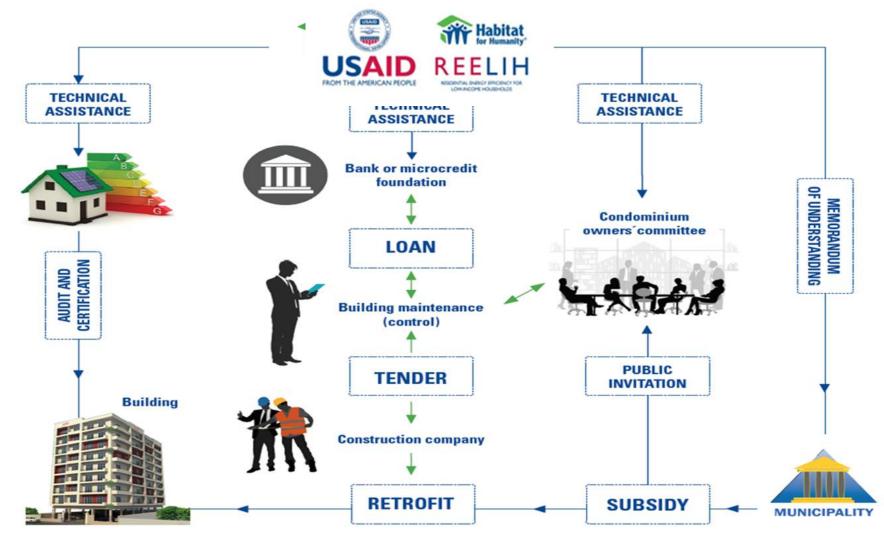








REELIH Eco-system of stakeholders





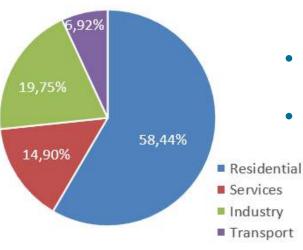




Case: Bosnia and Herzegovina







- Energy intensity of BiH: 0.5 toe / 1000 USD of GDP
- 4 times higher than EU/OECD average

First National Energy Efficiency Action Plan 2010-2018

Ratio of single-family and collective housing



20,422 collective residential buildings

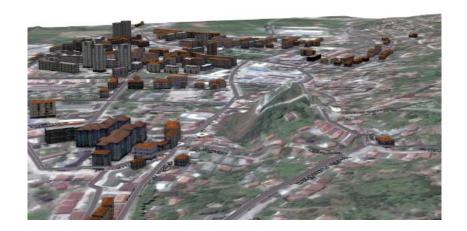
Census of population, households and dwellings in Bosnia and Herzegovina, 2013



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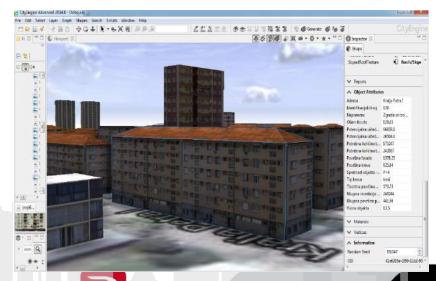
by total no. of dwelling units

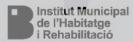












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CONSULTANTS AND ENGINEERS





After Before





Investment: ~ \$17,500 EUR

Expected savings: 55%









Desired outcomes

Development of energy efficiency market model in residential sector

Reduction of total energy consumption in residential sector.

Reduction of CO2 emissions

Registradores

Sustainable economic development

Reduction of poverty









Strategic Approach

- Improve bank's understanding of the vast residential lending market potential
- Develop targeted subsidy scheme for the government agencies
- Improve the legislation governing the Home Owners Associations (law on HOA)
- Improve the capacity of the local business on implementing the EE projects









Strategic objectives for REELIH

• Understnding of connection between investing in residential energy efficiency and reducing energy poverty

Convene & organize stakeholders

Test and demonstrate as a means to raise demand for rehabilitation









THANK YOU!

www.getwarmhomes.org

















