Residential Energy Efficiency in Low Income Housing

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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



DE ESPAÑA





Case: Bosnia and Herzegovina





Ratio of single-family and collective housing





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Before







Investment: ~ \$17,500 EUR Expected savings: 55%















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









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