Energy Efficiency in Residential Sector of Armenia

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Yerevan, Armenia
ENERGY CONSUMPTION in RESIDENTIAL SECTOR

# of households in multiapartment buildings

- Rural areas: 27,684
- Cities: 409,442

Annual Energy consumption

- Natural gas: 170 m³/capita
- Electricity: 1,550 kWh/capita

An average household with 4 family members is spending over USD $700/year on energy costs.
RESIDENTIAL ENERGY EFFICIENCY in ARMENIA

What stops households from doing more EE?

✓ Lack of awareness about technologies and measures → expected savings
✓ Lack of financing opportunities
✓ Absence of incentives promoting EE, e.g. tax breaks, rebates, etc.
✓ High cost and shortage of EE materials/equipment

Policy and regulatory field

✓ Overall prioritization of EE by the policy makers
✓ No concrete policy instruments to support implementation of residential EE
✓ Normative filed is being improved by UNDP-GEF Improving EE in Buildings project: catalogue of typical replicable EE houses, package of legislative changes being proposed, energy passports for buildings.
OUR EXPERIENCE

**Byblos Bank Armenia CJSC:** Advisory services and $10 million loan from IFC

- IFC advisory services included:
  - 4 of trainings on Residential EE for the credit and risk specialists of the bank
  - Transaction support – joint assessment of 10 projects
  - Provision of HEEL tool
  - Marketing support – development and publishing of residential EE booklet
OUR EXPERIENCE

Results:

✓ **over 60 projects** financed; expected energy saving of over 638 MWh/y; GHG reduction of over 300 tCO2e/y

Typical EE measures in residential sector

✓ Thermal insulation
✓ Efficient doors/windows
✓ Heating and hot water
✓ Lighting and efficient appliances
✓ Using the Renewable Energy Sources
THANK YOU

Tigran Parvanyan  
*Project Manager,  
Armenia Sustainable Energy  
Finance Project*

+374 10 545 242  
TParvanyan@ifc.org