ENERGY COSTS IN ARMENIA

Natural gas

Electricity

EXPECTED TO GROW!
ENERGY CONSUMPTION

ELECTRICITY CONSUMPTION

- Industry, 23.4%
- Agriculture, 2.2%
- Transport, 2.1%
- Residential sector, 28.4%
- Other, 31.1%
- Losses, 12.9%

NATURAL GAS CONSUMPTION

- Industry, 55.3%
- Residential sector, 35.5%
- Communal sector, 9.2%
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.
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 600 MWh/y; GHG reduction of over **250 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