

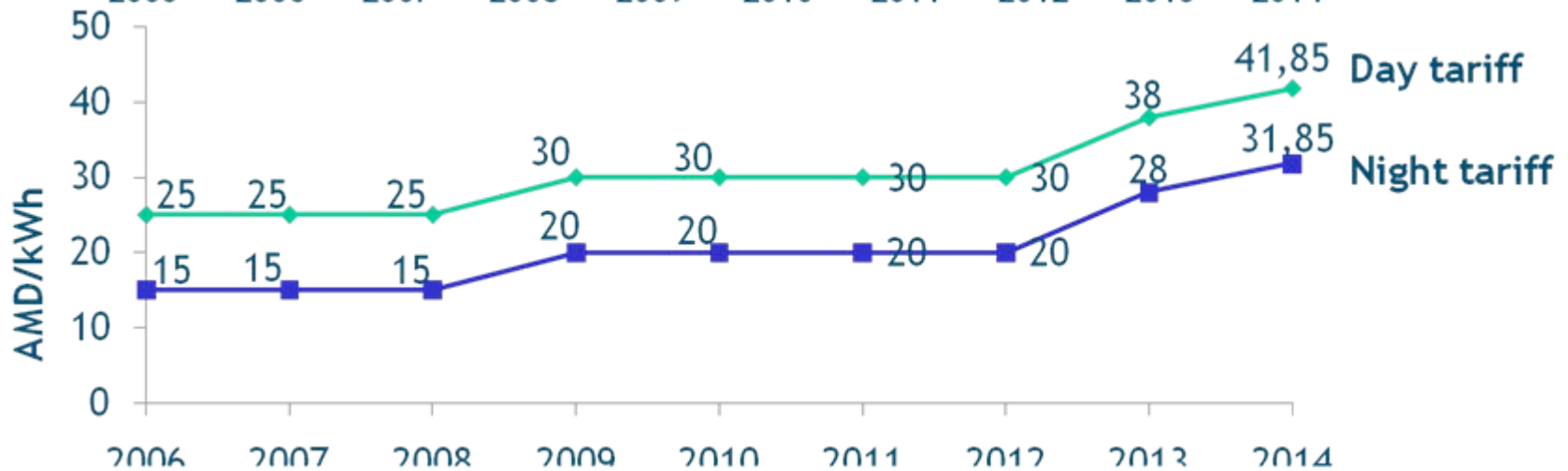
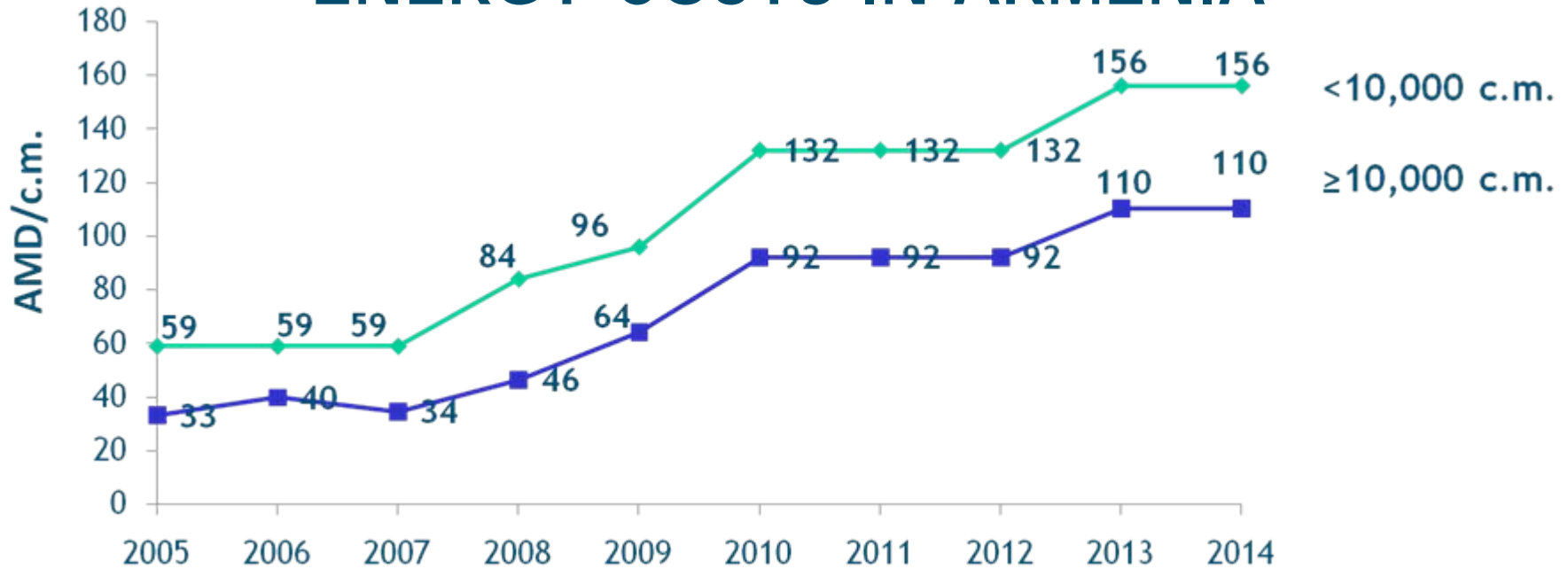


**International
Finance Corporation**
World Bank Group

Energy Efficiency in Residential Sector of Armenia

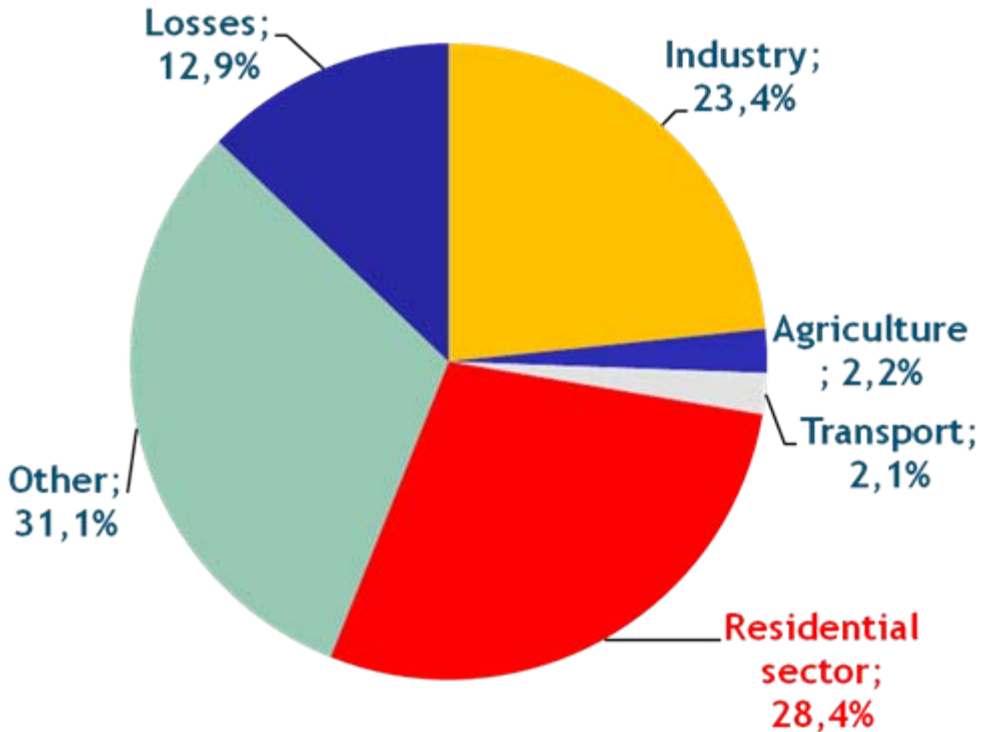
October 14, 2014
Yerevan, Armenia

ENERGY COSTS IN ARMENIA

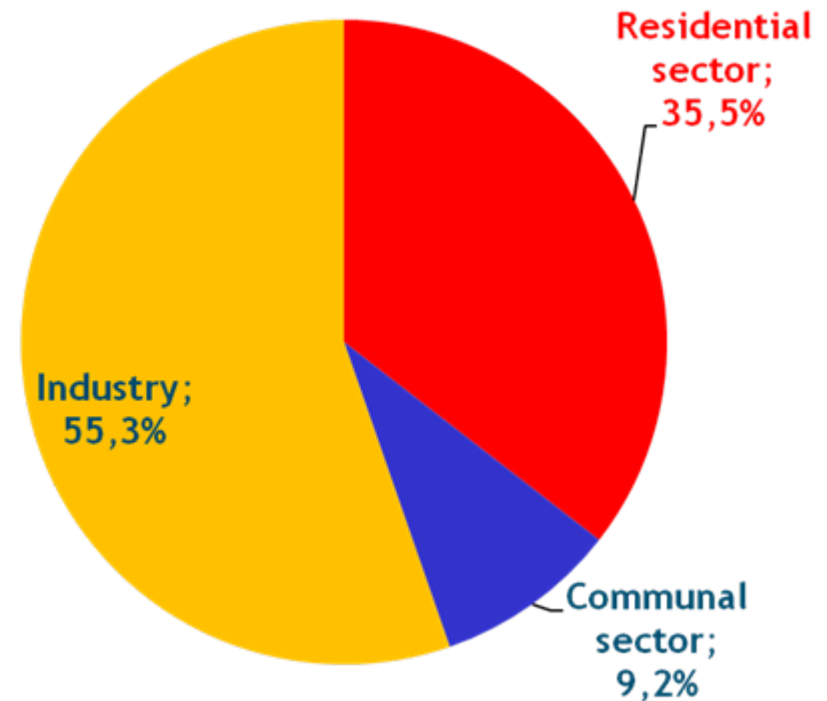


ENERGY CONSUMPTION

ELECTRICITY CONSUMPTION



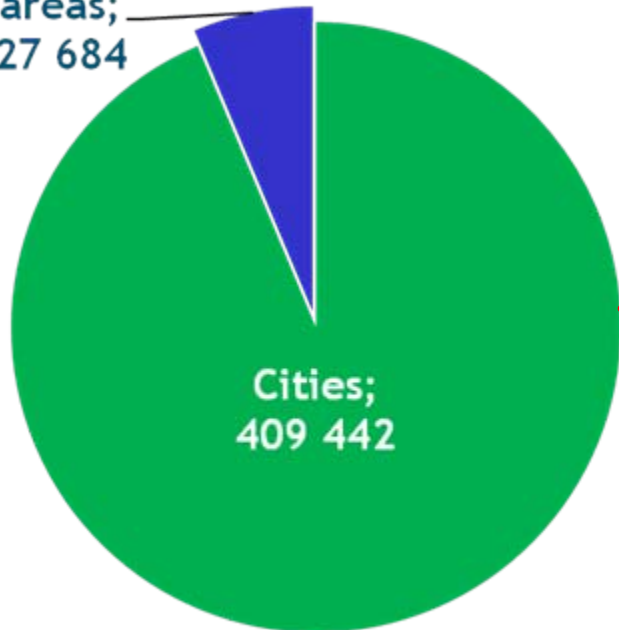
NATURAL GAS CONSUMPTION



ENERGY CONSUMPTION in RESIDENTIAL SECTOR

of households in multiapartment buildings

Rural areas;
27 684



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

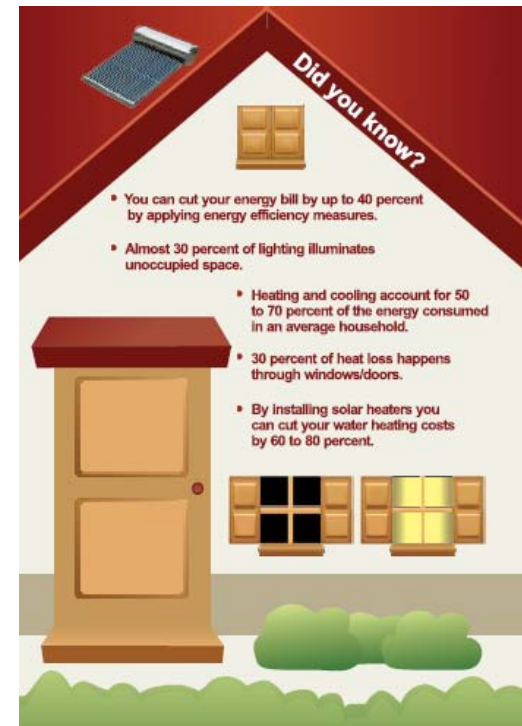
Policy and regulatory field

- ✓ Overall prioritization of EE by the policy makers
- ✓ **No concrete policy instruments to support implementation of residential EE**
- ✓ Normative field 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



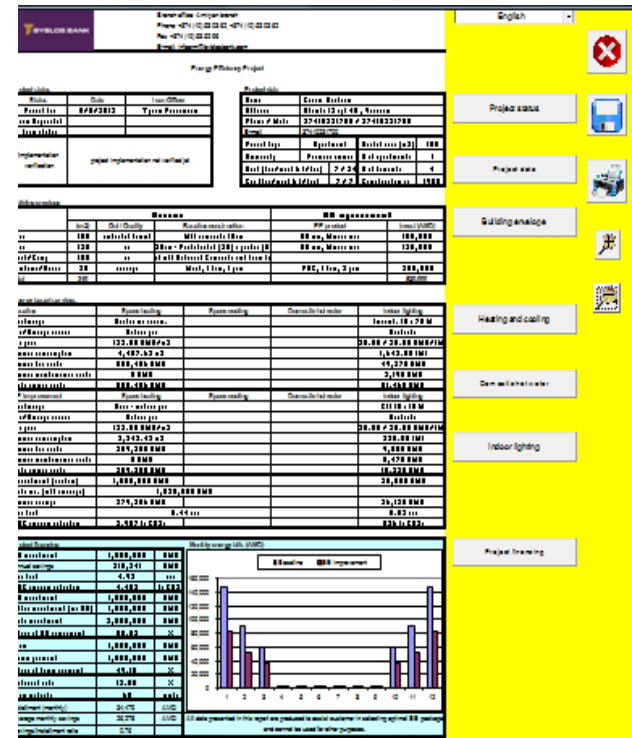
OUR EXPERIENCE

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

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