



UNECE HLM workshop “Energy efficiency for sustainable housing”

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Albania

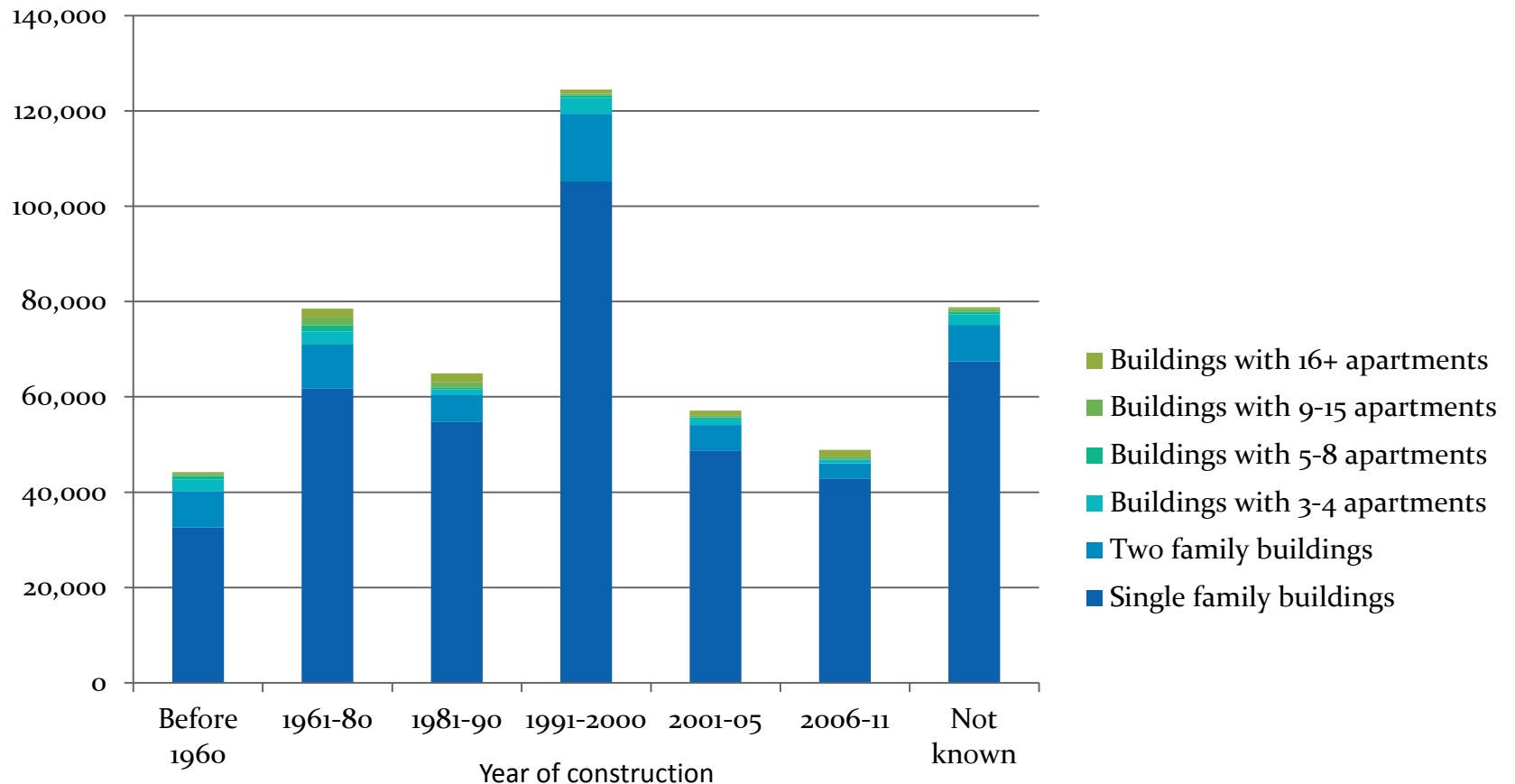
Continent	Europe	Climate:	Mild temperate to cool
Subregion	Southeast Europe	Natural resources	petroleum, natural gas, bauxite, chromite, copper, iron ore, nickel, salt, timber, hydropower
Geographic coordinates	41°00'N 20°00'E	Natural hazards	earthquakes, tsunamis, floods, drought
Area	28,748 km ² (11,100 sq mi)	Environmental issues	deforestation, soil erosion, water pollution
Coastline	611 km (380 mi)		
Land boundaries	720 km (450 mi)		



Some data

	2001	2011
Population	3 069 275	2 831 741
Urban population	1 294 196	1 498 508
Rural population	1 775 079	1 301 630
Households	726 895	740 256
Dwellings	785 515	1 075 881
Dwellings in urban areas	364 181	582 253
Dwellings in rural areas	421,334	493 628
Inhabited dwellings	696 977	722 481
Vacant dwellings	88 538	353 400

A variety of different type and age of buildings



Albania potential for energy efficiency (EE) in residential sector

Basic info about the sector

- The housing sector in Albania consume **49%** of all electricity available.
- The price of electricity is increased by **66%** in 2003-2010
- The **energy market** will be further liberalized in 2015
- 20% of the the electric energy is stolen and 20% looses in the network
- National Energy Efficiency Action Plan (NEEAP) goal of **9 % energy savings by 2018**

Residential EE potential

- **€ 600 million**– estimate Investments for Energy Efficiency of Residential sector
- **30%-50%**– energy saving potential of Residential sector
- **3-7 years** – average payback period for Residential EE investments
- **More than 50%** of the buildings are constructed before 1990 and require EE renovation



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Stated-owned, self-sufficient enterprise

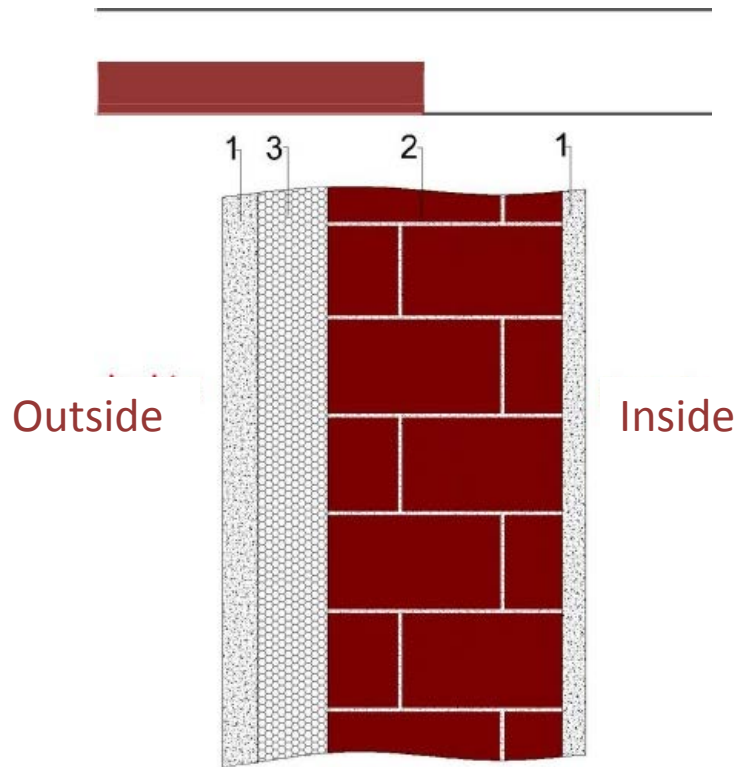
Ensures affordable adequate and energy-efficient housing for low and medium-income population



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PROJECTS ON ENERGY EFFICIENCY

1- New project



- 40 apartments
- Thermo insulation
- Double glazing
- Building envelope

1. Plaster
2. Hole bricks
3. Styrofoam

2- National competition on energy efficient and low-cost houses

Challenges to provide energy efficient housing

Technical



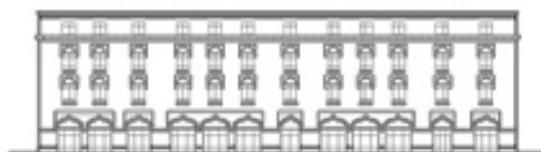
- What is an energy efficient house?
- What standards should we use?
- How we will make sure that the project complies with our targets?
- What methods shall we use to calculate the energy efficiency?
- Who will ensure

Socio-economic



- Will the costs increase?
- How much cost increase is feasible?
- Will low and medium income families afford?
- Will they be able to take a loan?
- Can the loan be paid through savings from energy bills?

3- Workshop on Energy Efficiency



REPUBLIKA E SHQIPËRISE
MINISTRIA E ZHVILLIMIT
URBAN DHE TURIZMIT



REPUBLIKA E SHQIPËRISE
MINISTRIA E ENERJISË
DHE INDUSTRIË



UNITED NATIONS
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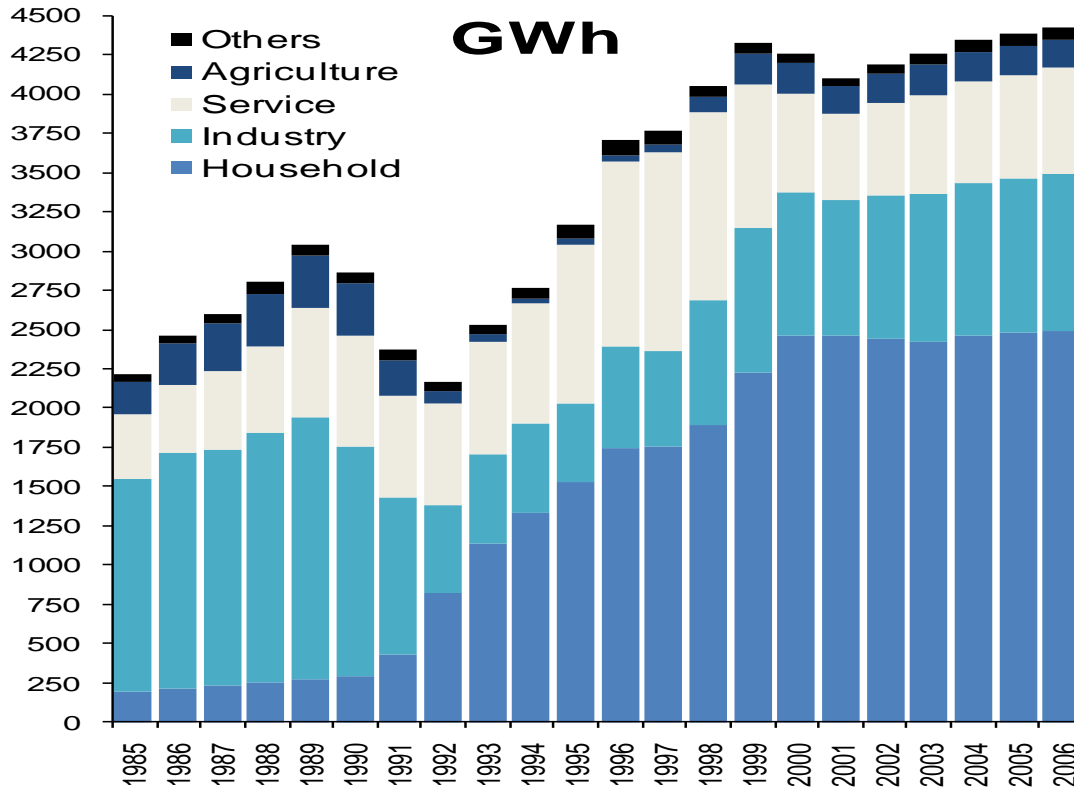




Workshop objectives

- To raise awareness
- Analyse the role of interested
- Identify the main challenges
- Establish a network of experts
- Highlight the importance of condominium management

Challenges of EE in Albania



Challenges

- Regulatory framework
- Lack of gov. incentives to EE investments
- Lack of sectorial capacities (agencies, Auditors)
- Sector not aware of the market potential
- Banking sector lack of capacity and funds to be allocated for new products

Conclusions

- Lack of information
- Lack of an efficient action plan
- Lack of building standards
- Energy price
- Lack of qualified specialists
- Lack of successful examples

Conclusions

- Understanding the benefits of EE
- Increasing social awareness
- Providing the state of the art
- Providing the know how
- Developing building standards