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United Nations Economic Commission for Europe

## ENERGY EFFICIENCY

### GEEE

### MODESTY ACHIEVED RESULTS

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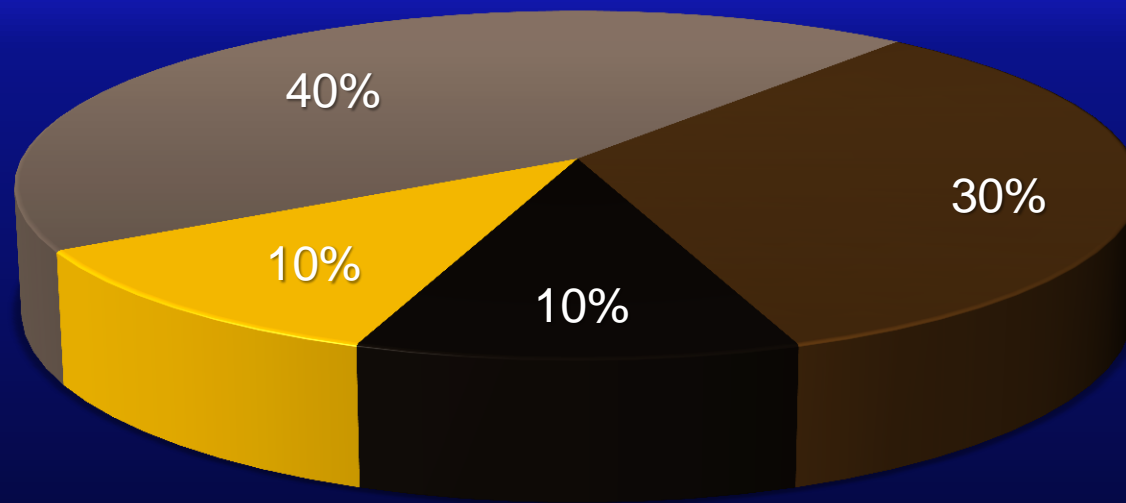


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■ Building and Construction

■ Traffic

■ Industry

■ Energy





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## STATIC MODEL OF ENERGY EFFICIENCY:

### BUILDING RENOVATION - GREAT EXPECTATIONS

- ❖ HIGH VALUE INVESTMENT
- ❖ LOW INVESTMENT PROFITABILITY
- ❖ SHORT-TERM ENERGY EFFICIENCY MEASURES
- ❖ LONG TERM PAY BACK PERIOD 30 -> 50 YEARS
- ❖ LOW VALUE ADDED JOBS
- ❖ SHORT - TERM BUSINESS PROCESSES – FAMILY HOUSES
- ❖ NEW JOBS FOR LOW-SKILLED WORKFORCE
- ❖ UNCREATIVE ECONOMY – NO INNOVATIONS





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- ❖ RENOVATION OF THE BUILDING DOES NOT BRING THE EXPECTED RESULTS BECAUSE INVESTMENTS IN RENOVATIONS ARE ECONOMICALLY INFEASIBLE
- ❖ RENOVATION RESULTS ARE ONLY REASONABLY AT HIGH INVESTMENTS
- ❖ ONLY HIGH ENERGY CLASS GIVE THE GOOD EE RESULTS
- ❖ RENOVATION ARE ATTRACTIVE BUT NOT ECONOMICALLY JUSTIFIED
- ❖ LONG PROCESS IN THE SECTOR OF RECONSTRUCTION OF PUBLIC BUILDINGS AND STATE-OWNED BUILDINGS





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## **DYNAIC MODEL OF ENERGY EFFICIENCY:**

### INDUSTRY – TRAFFIC - TRANSPORT

- ❖ HIGH VALUE INVESTMENT
- ❖ HIGH INVESTMENT PROFITABILITY
- ❖ LONG - TERM ENERGY EFFICIENCY MEASURES
- ❖ SHORT - TERM PAY BACK PERIOD
- ❖ HIGH VALUE ADDED JOBS
- ❖ CONTINUOUS R & D
- ❖ NEW TECHNOLOGY DEVELOPMENT
- ❖ NEW JOBS FOR HIGHLY AND WELL - SKILLED WORKFORCE
- ❖ CREATIVE ECONOMY – HIGH LEVEL OF INNOVATIONS





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## INVESTMENT CASE – FAMILY HOUSE – 220m<sup>2</sup> – 2½ FLOOR:

### HIGH RENOVATION INVESTMENT Energy Class A+

- WINDOWS & DOORS ~ € 30.000
- FASADE ~ € 15.000
- HYDRISOLATION ~ € 12.000
- ROOF ~ € 7.000
  
- **TOTAL INVESTMENT ~ € 64.000**

PAY BACK € 210 / month (gas & electricity) 25 years

not a profitable investment





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## THANKS

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