



## Results of Empricial Analysis - Cost Optimal Level

 Cost optimal level (cost of construction, energy costs + service 35 years: Low energy building without automatic ventilation system

Low energy building = heating demand/m<sup>2</sup> floor space ca. 45kWh/m<sup>2</sup>a according to ENERGY CERTIFICATE (= End energy heating 55kWh + end energy hot water 30kWh)

- Addition costs for automatic ventilation system with heat recovery (+50 Euro/m²) for "very low energy building" + additional costs for insulation for passive standard (windows, insulation, planning + 60 €) = additional rent component of 0,25 0,55 € per m² and month + costs of service (+ 0,10 € per m² and month) cannot be compensated by additional reduction of energy consumption
- Which is true for theoretical calculation (energy consumption in passive house: 30 kWh => 0,20 € per m² and month)
- And "more true" by empirical evidence as consumption in passive houses/ver low energy buildings is above calculated demand
- Taking the real consumption into consideration and calulating primary energy (electricity for ventilation) the ecological advantage of very low/passive buildings is very low if any!