

EPBD review and EU policies for the improvement of buildings energy efficiency

Heating, cooling and ventilation: how to achieve the largest savings in buildings pursuing the EU's energy strategy?

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European buildings in figures

- 40% of the EU's total final energy consumption 75% of our housing stock is energy inefficient
- Long-term assets (50 or more years)
- Low demolition rates (0.1% per year) and low refurbishment rates (1.2% per year)
- Responsible for almost two thirds of EU energy used for heating and cooling
- 80% of energy needs in buildings used for heating and hot water



#EUEnergyChallenge

#EnergyEfficiency

INDUSTRY
Opportunities for local companies and high value-added appliances in an efficient market



Buildings in the General policy framework

Energy Efficiency Communication [COM(2014) 520 final]

- 2030: buildings a key sector to tackle
- Multiple benefits of investing in buildings efficiency

Energy Union Communication [COM(2015) 80 final]

- "... will pay particular attention to those sectors with huge efficiency potential, in particular the transport and buildings sector"
- "...Retrofitting existing buildings [...] will reduce the EU's energy import bills, reinforce energy security and cut energy costs for households and businesses."



Better enforcement

"Full implementation and strict enforcement is the first priority to establish the Energy Union" Energy Union Communication, February 2015



Energy Performance of Buildings Directive Energy Efficiency Directive Directives on Ecodesign and Energy Labelling



The EPBD is the main instrument addressing building efficiency

Specific provisions on:

- Regular inspections heating and AC systems
- System requirements in case of retrofit/replacement
- Mandatory feasibility study (before construction) for highly efficient alternative systems



Experience with application: evaluation and review of the EPBD

Practical experience with implementation

 Some challenges: enforcement of system requirements; responsibility to regulate general indoor environmental quality lies with the Member States

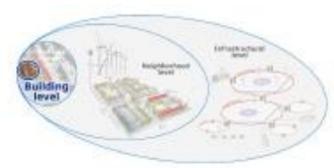
More general question: Is the Directive (still) fit for purpose?

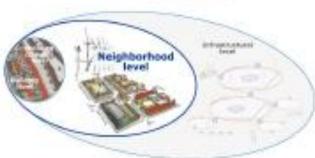


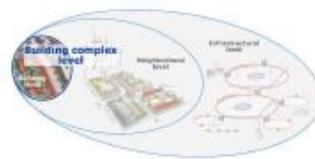
Think beyond the building

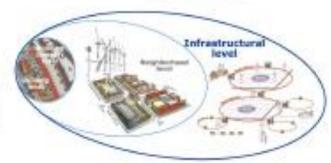
District energy and demand response Renewables-NZEB

National building renovation roadmaps
H&C strategy











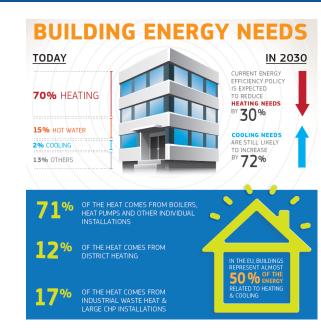
... some challenges

Financing and innovation, combined with recognised standards

Better data

Facilitating a consumer-led market

Supporting advanced home appliances







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