The European Union's strategy and policies in support of EE in buildings

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Beyond 2020: EED and EPBD reviews and the 2030 framework

2020

- 20% GHG
- 20% RES
- 20% EE

2030

- 40% GHG
- ≥ 27% RES
- ≥ 27% EE
The Energy Union

[COM(2015)80]

**Where** we want to go:
Secure, sustainable, competitive, affordable energy for every European

**What** this means:
- Energy security, solidarity and trust
- A fully integrated internal EU-wide energy market
- Energy efficiency as an energy source in its own right
- Transition to a low-carbon society
- Research, innovation and competitiveness

**How** we want to reach it:
- 5 Guiding dimensions
- 15 Concrete actions
- 43 Initiatives

*Source: Directorate-General for Energy*
3 Energy efficiency

Rethink energy efficiency as an energy source in its own right

This means increasing energy efficiency, in particular in the building sector, and promoting an energy-efficient and decarbonized transport sector as well as efficient products.

Source: Directorate-General for Energy
Energy efficiency in buildings
Today's legislative instruments

- Recast EPBD Directive 2010/31/EU
- Energy performance certification of buildings (EPCs)
- Issue, handover, quality control
- Display in public buildings
- 3% renovation for central government
- Nearly-zero energy
- National plans
- Long-term renovation roadmaps

- ED & ELD Directives 2009/125/EC, 2010/30/EU
- Energy performance of building products
- New buildings
- Existing buildings
  - Major renovation
- Building elements
  - Envelope and technical systems
- Cost-optimum energy performance requirements

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EPBD

Calculati

Methodology

MINIMUM

Requirements

INDEPENDENT

CONTROL

SYSTEMS

EPC

INSPECTIONS

NZEB

Energy
Setting and ensuring minimum requirements

→ **New buildings**
  → Art.4(1) and Art.6

→ **Existing buildings that undergo a major renovation**
  → Art. 2(10): 2 options to define "major renovation"
  → Art. 4(1) and Art.7 (1st and 2nd subparagraphs)

→ **Retrofitted/replaced building elements part of the building envelope**
  → Art. 4(1) and Art.7 (3rd and 4th subparagraphs)

→ **Technical building systems**
  → Art. 8
Cost optimal level for requirements

- Aimed at ensuring high ambition level in MS
- Reports from Member States were due by March 2013
- Communication on the state of progress in preparation
Nearly Zero Energy Buildings

*Member States shall ensure that:*

- After 31 December 2018, new buildings occupied and owned by public authorities are nearly zero energy buildings
- After 31 December 2020 all new buildings occupied are nearly zero energy buildings

*Legal obligation + national plans for increasing the number of nearly zero energy buildings*
State of play

- EC report on progress by Member States towards Nearly Zero-Energy Buildings [COM(2013)483], Updated in October 2014

Source: REHVA
Energy performance certificates
Create asset value in addition to energy savings

Effect of one-letter or equivalent improvement in EPC rating across a selection of European property markets (see also notes in the main report)
Inspections

- For heating systems with a heat generator with a rated output above 20 kW.
- If boiler output above 100 kW, maximum each 2 years.
- For air-conditioning systems with a rated output above 12 kW.
Enforcement mechanisms

Rules on penalties for all obligations

- Minimum requirements
- Issue, display of EPCs
- Inspections and inspection reports

Penalties must be:

- Effective,
- Proportionate, and
- Dissuasive
Independent control system

- Compliance with energy performance certification
- Compliance with regular inspection of heating and air-conditioning schemes
- Opportunity to collect valuable data on the existing building stock
Ressources for implementation
Thank you for your attention

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