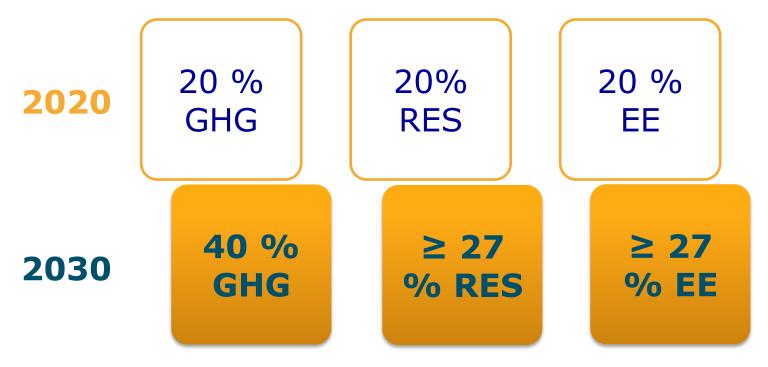


## The European Union's strategy and policies in support of EE in buildings

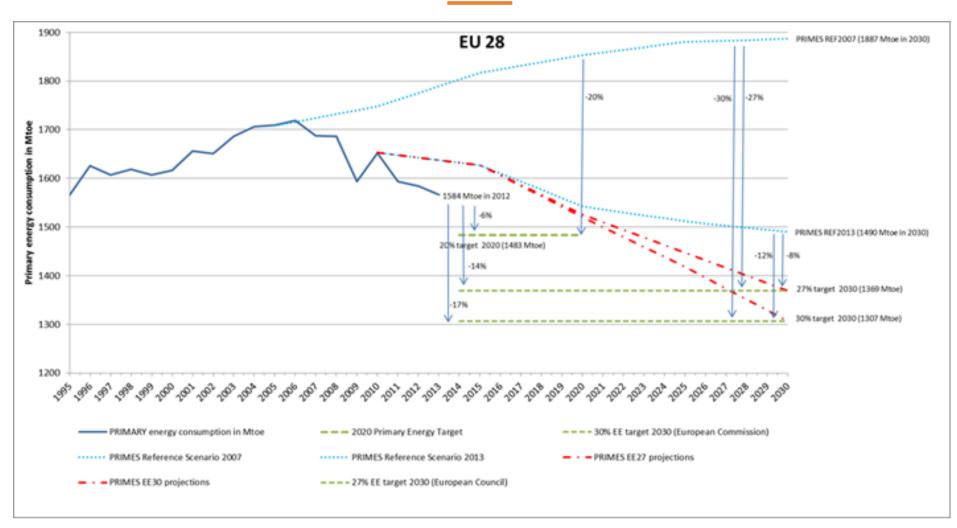
*Marcos González Álvarez Directorate General for Energy Unit C3, Energy efficiency* 



## **Beyond 2020: EED and EPBD reviews and the 2030 framework**









## 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 competiveness

#### How we want to reach it:





## **3 Energy efficiency**

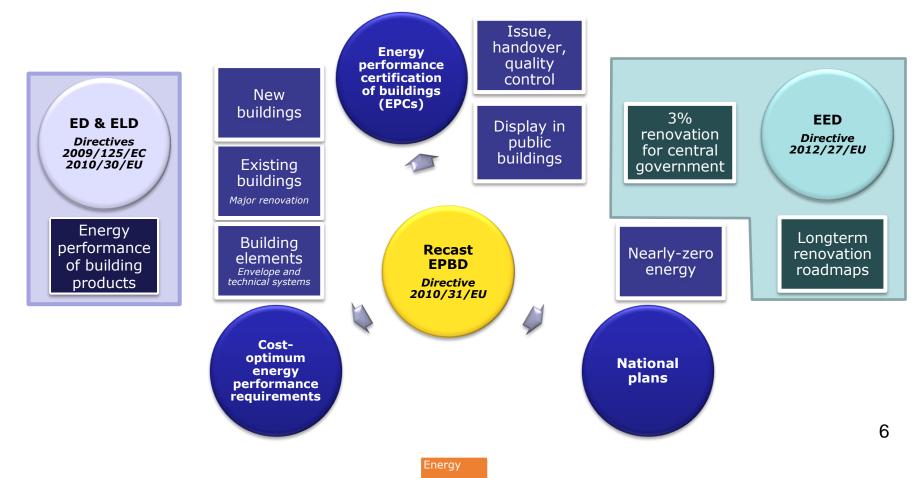


## **Rethink energy efficiency as an energy** source in its own right

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.



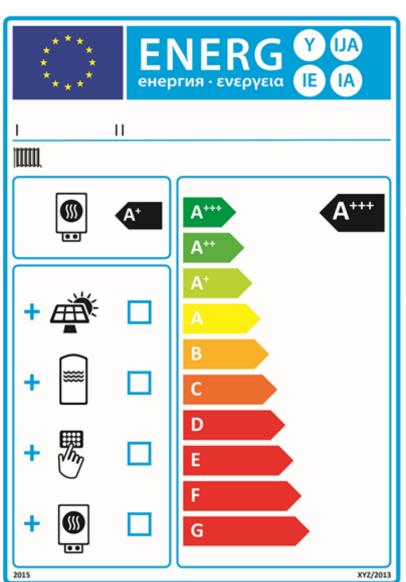
## Energy efficiency in buildings Today's legislative instruments

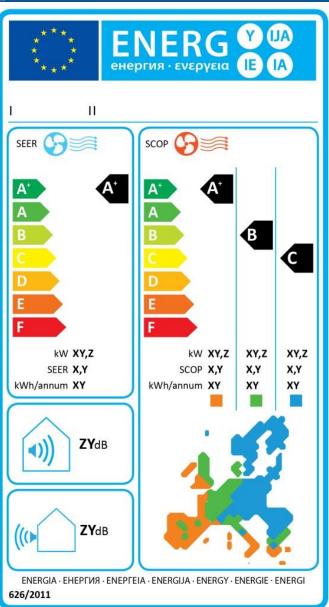


#### Ecodesign and Energy Labelling



Commission

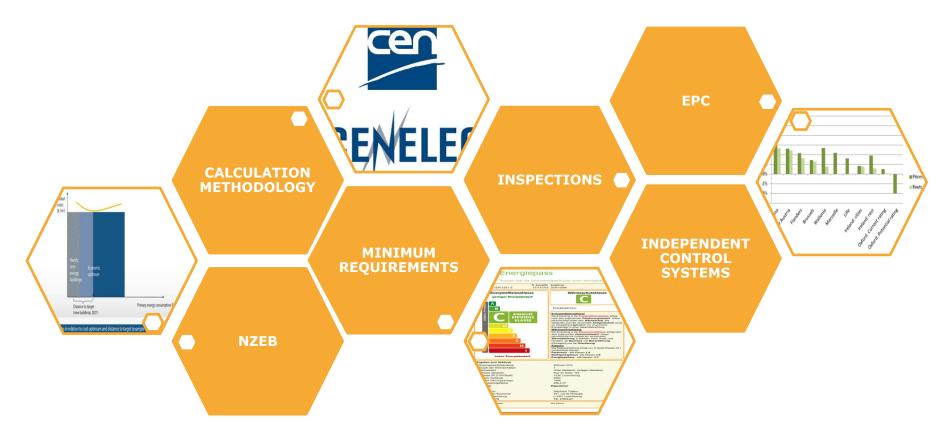




Energy







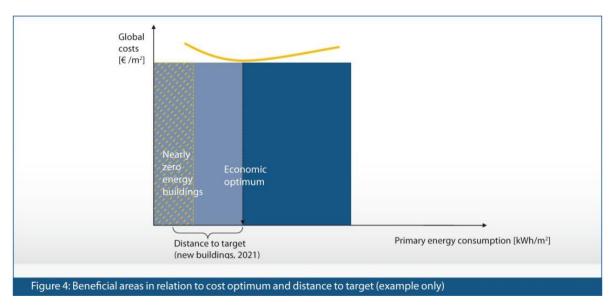


# Setting and ensuring minimum requirements

- → 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 (1<sup>st</sup> and 2<sup>nd</sup> subparagraphs)
- → Retrofitted/replaced building elements part of the building envelope
  - $\rightarrow$  Art. 4(1) and Art.7 (3<sup>rd</sup> and 4<sup>th</sup> 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:

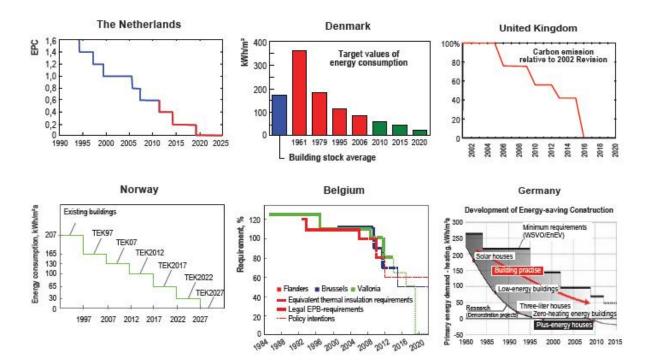
- After 31 December 2018, new buildings occupied and owned by public authorities are nearly zero energy buildings
- After 31 December 2020 all new buildings occupied are nearly zero energy buildings

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



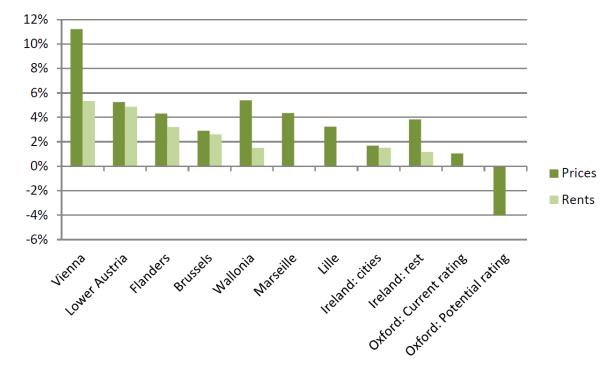
Source: REHVA

Energy



#### 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)





These figures show how much the average household would spend in this property for heating, lighting and hot wate This excludes energy use for running appliances like TVs, computers and cookers, and any electricity generated by microgeneration

Top actions you can take to	save n	noney a	nd make your	home more e	fficient
Not energy efficient - higher running costs					
(rias) F (rias) G				rgy efficiency rating es is band D (rating	
(19-54)	49		the recommendat		
(10-40) C		75	The higher the rating the lower your fuel bills are likely to be.		
(92 plus) A (81-91) B			The graph shows your home.	the current energy	efficiency of
/ery energy efficient - lower running costs	Current	Potential			

1 Increase loft insulation to 270 mr £100 - £350 £14 2 Cavity wall insulation £500 - £1.500 £537 3 Draughtproofing £80 - £120 £78 See page 3 for a full list of recommendations for this property

When the Green Deal launches, it may allow you to make your home warmer and cheaper to run at no up-front cost, find out more, contact the Green Deal Advice Service on 0800 XXX XXX or visit www.greendealadvice.org.		
Pa	ge 1 of 4	



## 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

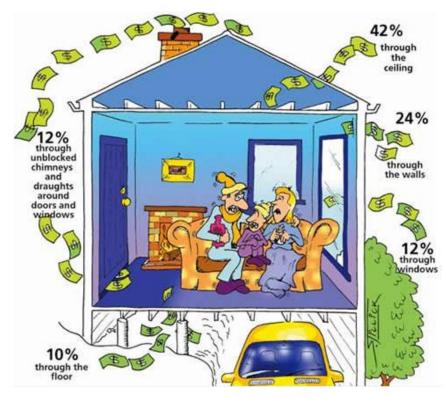


## **Ressources for implementation**





## Thank you for your attention



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