



European  
Commission



# Energy Performance of Buildings Directive A state of play

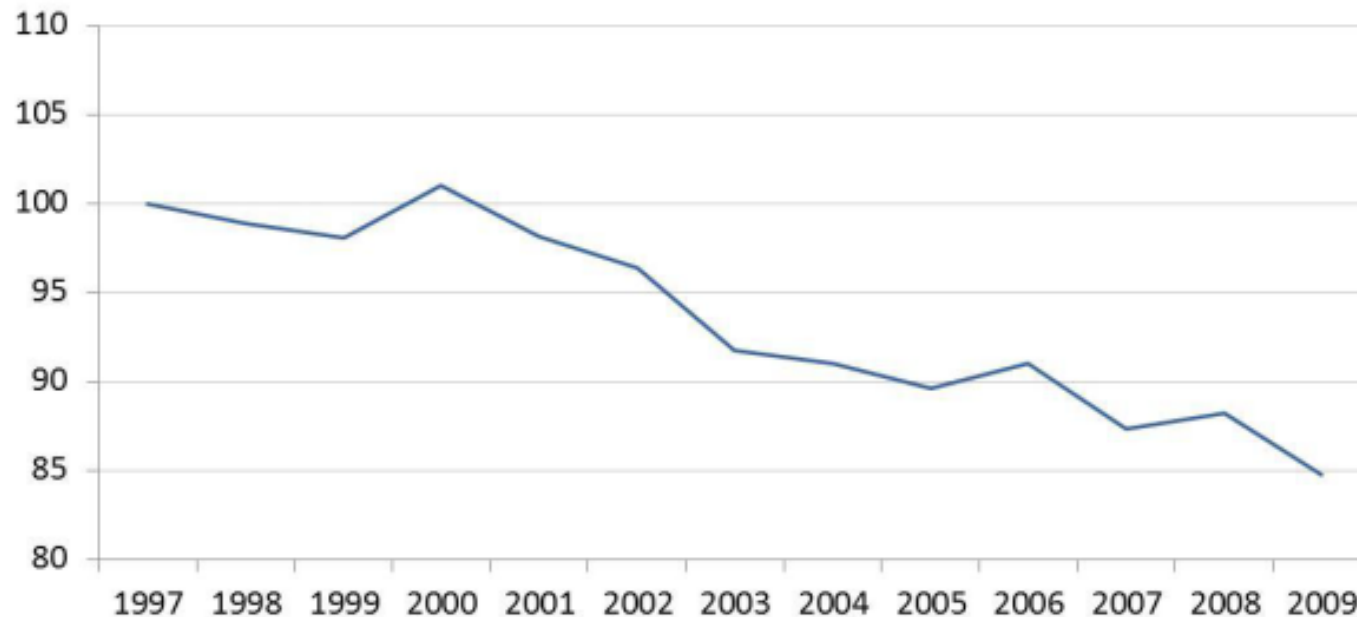
**BUILD UP Skills EU exchange  
meeting**

*Brussels, 27 Nov. 2013*

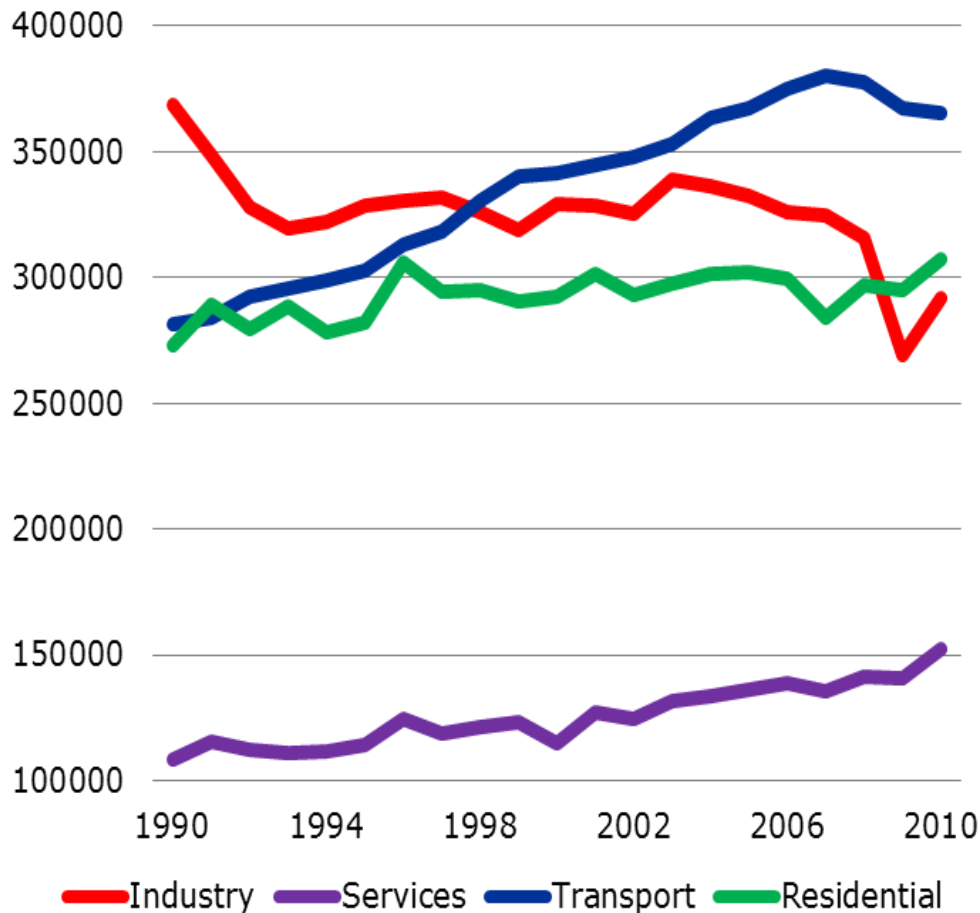
**Laurent Deleersnyder**  
*Directorate General for Energy  
Unit C3, Energy efficiency*

# The efficiency of buildings in the EU has been steadily improving...

*Energy efficiency trend for space heating in dwellings*



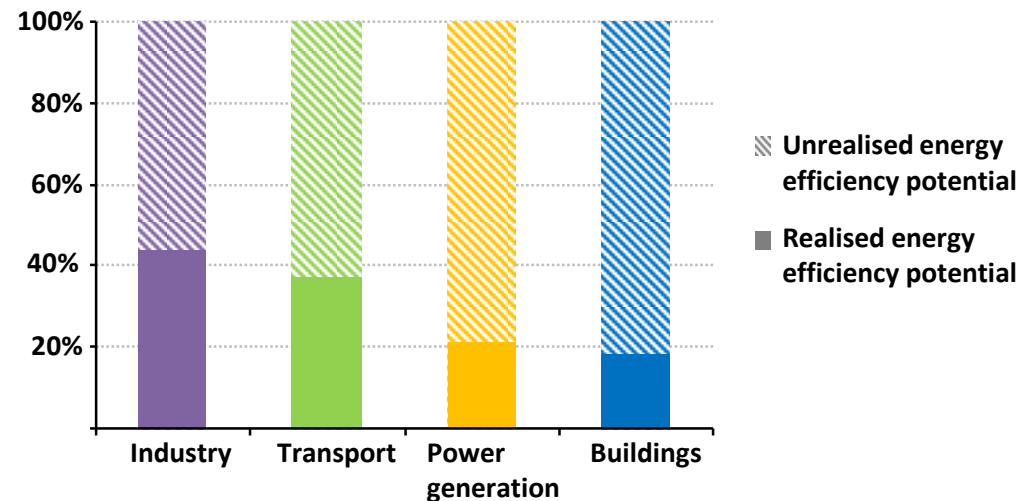
## EU Sectorial energy consumption



*...but  
residential  
consumption  
has been  
steadily  
growing!*

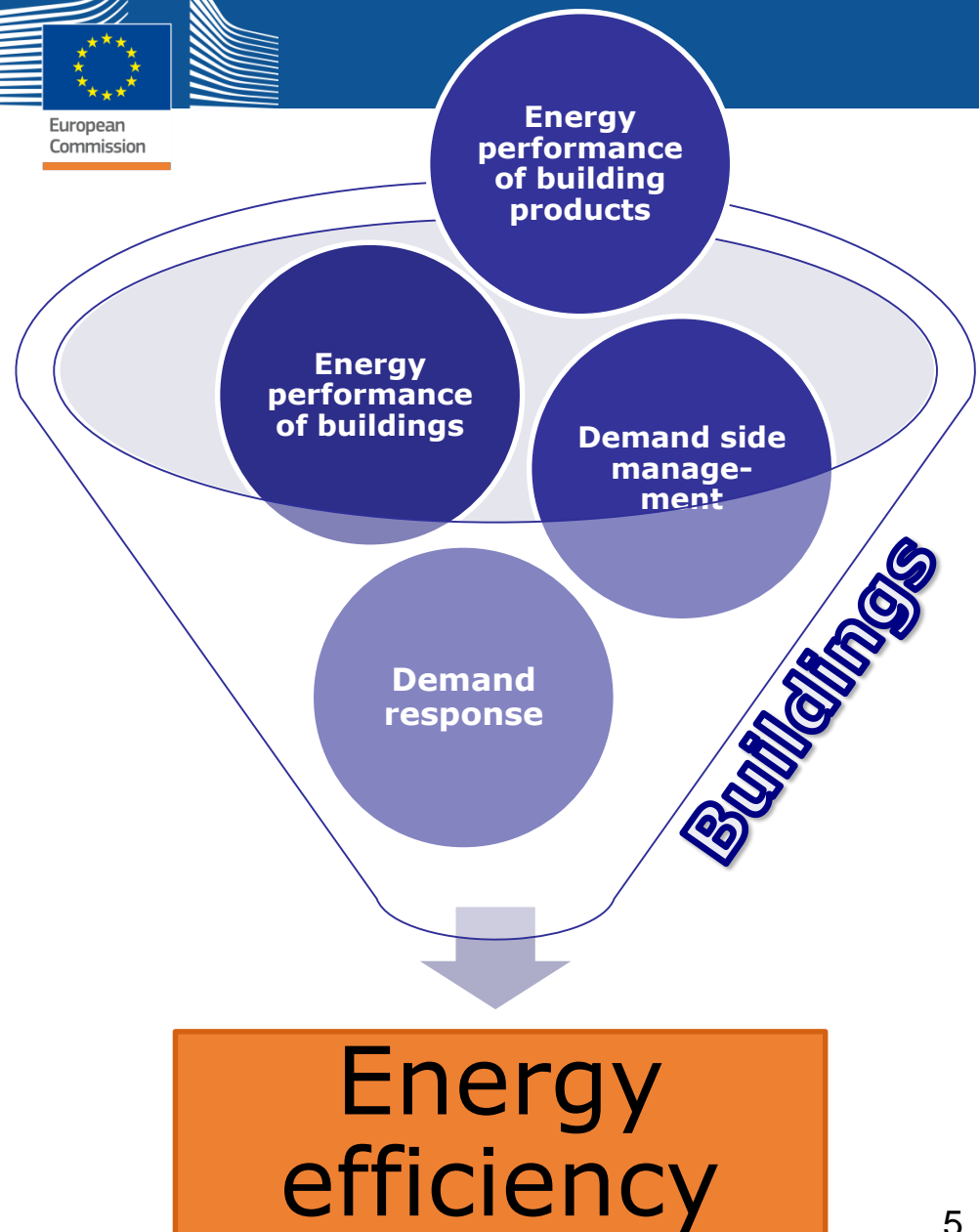
# Despite of high potentials!

- *Target around 90% reduction of GHG Emissions by 2050*



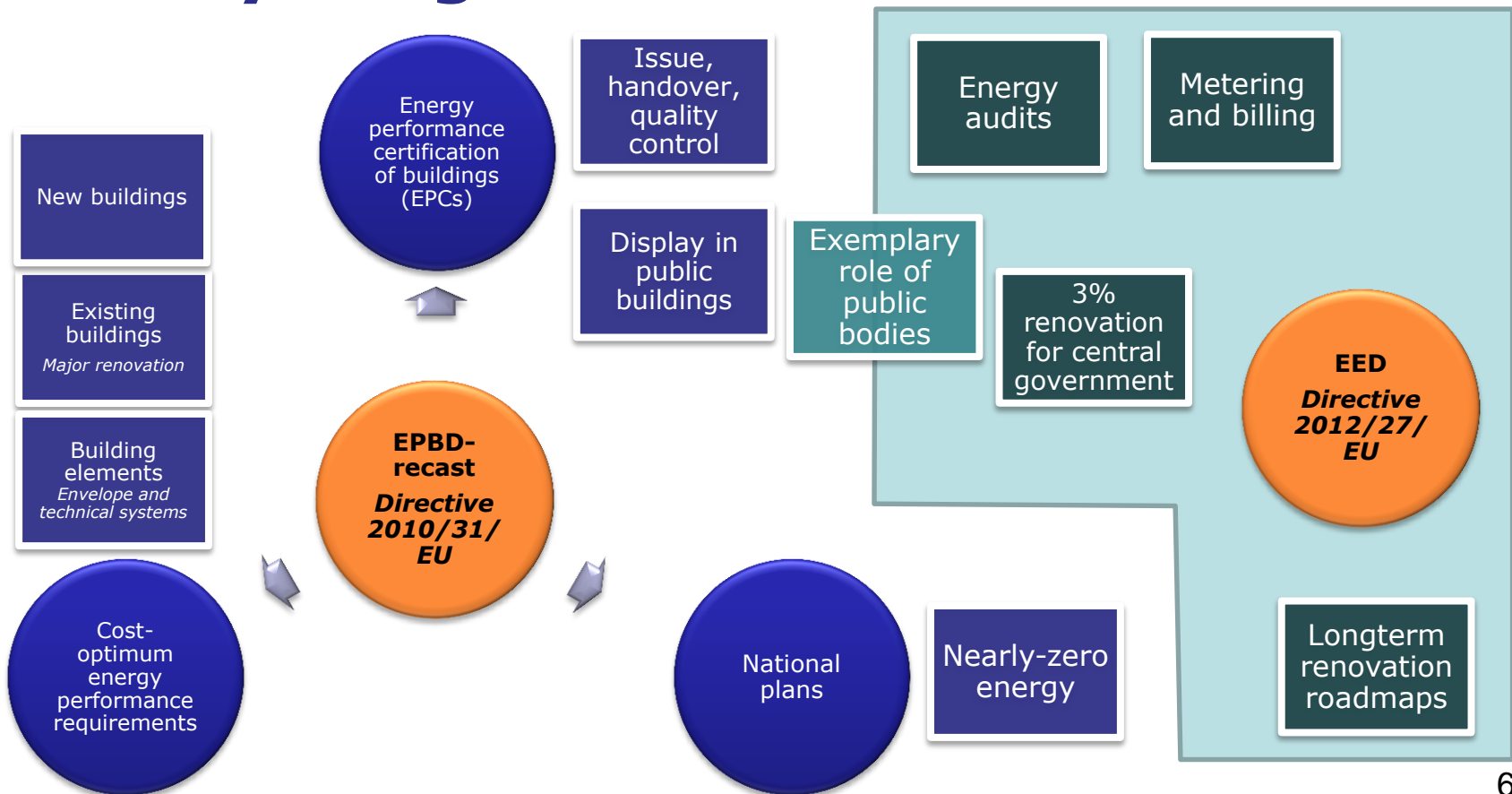
- *Increase the rate and depth quality of energy efficiency building renovation (currently only at 1.2%/a)*

*To tap the potential, action has to be taken at all levels*



# Energy efficiency in buildings

## Today's legislative instruments

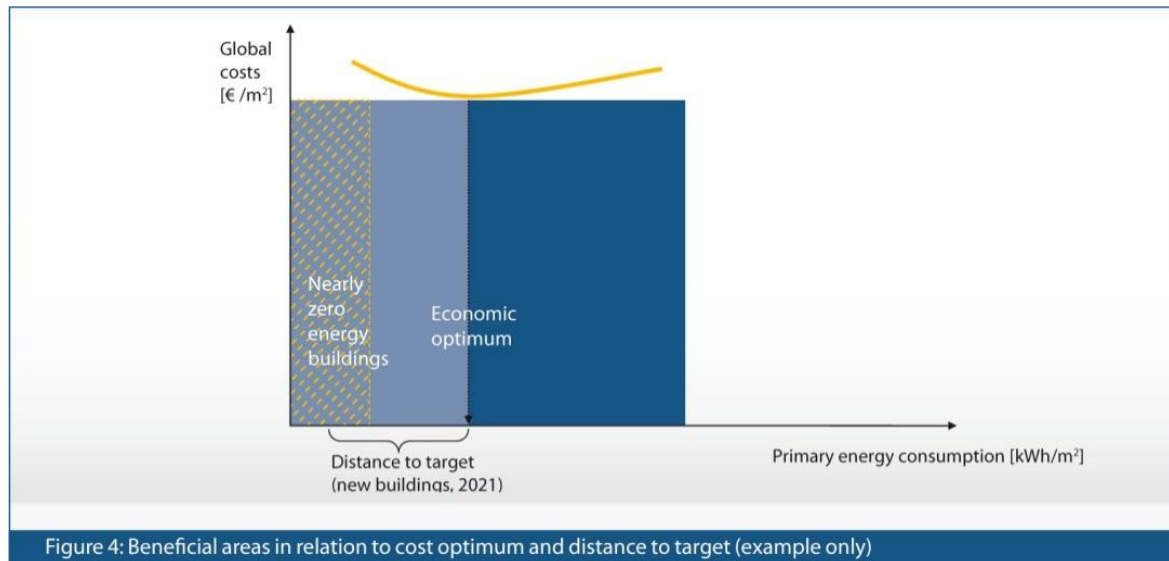


# Key elements of the EPBD



- Minimum energy performance requirements
- **Cost-optimal methodology**
- Requirements for technical building systems
- Energy Performance Certificates
- Inspection of heating and cooling systems
- Independent experts and quality control
- **Introduction of nearly Zero-Energy Buildings**
- **Voluntary common EU certification scheme**

# Cost optimal methodology



- Aimed at ensuring high ambition level in MS
- Reports from Member States due by March 2013
- Current state: 21 reports received so far
- Commission will check and report



# 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**
- **Develop national plans for increasing the number of nearly zero energy buildings**

# European Commission's NZEB study

*Towards nearly zero energy buildings – Definition of common principles under the EPBD*

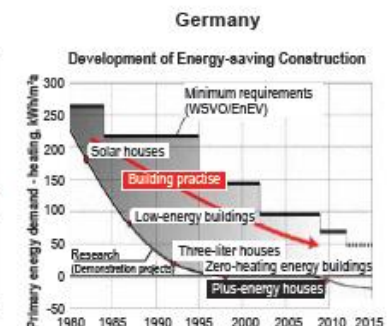
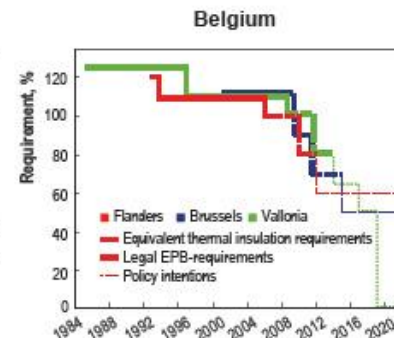
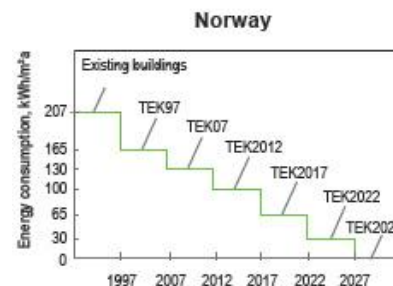
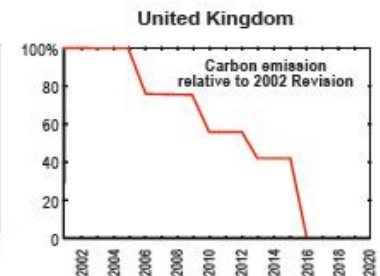
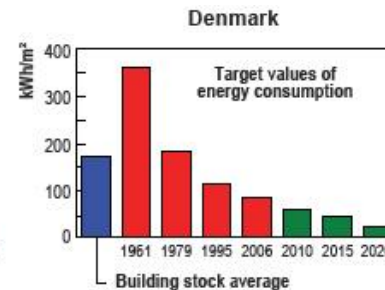
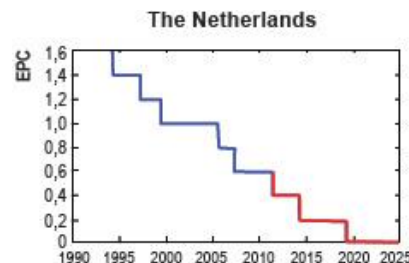
- **Finished early 2013**
- **Final report available on our website:**  
[http://ec.europa.eu/energy/efficiency/buildings/buildings\\_en.htm](http://ec.europa.eu/energy/efficiency/buildings/buildings_en.htm)
- **Key conclusions:**
  - ✓ Indication that mild climates and abundant solar irradiation make nearly zero energy buildings in southern Europe technologically feasible with global costs over 30 years equal or lower than ordinary buildings built today.
  - ✓ More challenging in northern climates.
  - ✓ Smooth transition between cost optimality and nearly zero energy buildings is achievable.

# What are Member States doing?

## Communication (2013)483 final/2

*Member States plans on NZEB: 15 reports received*  
*Commission published report on NZEB which concluded:*

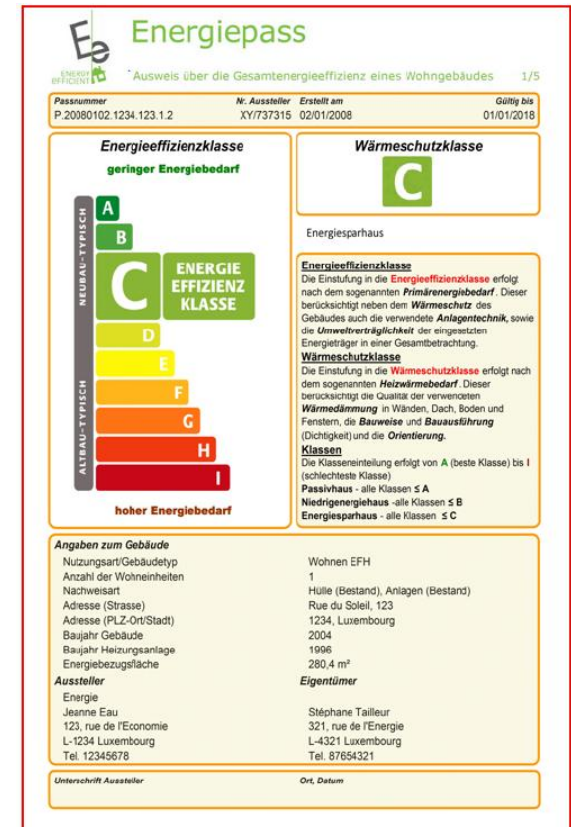
- **Too little progress by Member States**
- **More guidance seems to be necessary**



Source: REHVA



# Standardisation / Voluntary EU certification scheme

- Overarching standard prEN 15603 in finalisation
- EPBD standards expected by 2015
- COM supports CEN's initiative to define a CEN preferred option
- COM initiative in parallel:
  - Development of management & marketing aspects of a common calculation scheme
  - Market Study started mid-2013, results to be expected in 2014



**Energiepass**  
Ausweis über die Gesamteffizienz eines Wohngebäudes 1/5

Passnummer: P.20080102.1234.123.1.2 N. Aussteller: XY/737315 Erstellt am: 02/01/2008 Gültig bis: 01/01/2018

<b>Energieeffizienzklasse</b> geringer Energiebedarf  ENERGIE EFFIZIENZ KLASSE A B C D E F G H I hoher Energiebedarf	<b>Wärmeschutzklasse</b>  C Energiesparhaus <b>Energieeffizienzklasse</b> Die Einstufung in die Energieeffizienzklasse erfolgt nach dem sogenannten Primärenergiebedarf. Dieser berücksichtigt neben dem Wärmeschutz des Gebäudes auch die verwendete Anlagentechnik, sowie die Umweltverträglichkeit der eingesetzten Energieträger in einer Gesamtbetrachtung. <b>Wärmeschutzklasse</b> Die Einstufung in die Wärmeschutzklasse erfolgt nach dem sogenannten Heizwärmebedarf. Dieser berücksichtigt die Qualität der verwendeten Wärmedämmung in Wänden, Dach, Boden und Fenstern, die Bauweise und Bauausführung (Dichtigkeit) und die Orientierung. <b>Klassen</b> Die Klasseneinteilung erfolgt von A (beste Klasse) bis I (schlechteste Klasse) Passivhaus - alle Klassen ≤ A Niedrigenergiehaus - alle Klassen ≤ B Energiesparhaus - alle Klassen ≤ C
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<b>Angaben zum Gebäude</b> Nutzungsart/Gebäudetyp Anzahl der Wohneinheiten Nachweisart Adresse (Strasse) Adresse (PLZ-Ort/Stadt) Baujahr Gebäude Baujahr Heizungsanlage Energiebezugsfläche <b>Aussteller</b> Energie Jérôme Eau 123, rue de l'Economie L-1234 Luxembourg Tel. 12345678	Wohnen EFH 1 Hülle (Bestand), Anlagen (Bestand) Rue du Soleil, 123 1234, Luxembourg 2004 1996 280,4 m² <b>Eigentümer</b> Stéphane Tailleux 321, rue de l'Energie L-4321 Luxembourg Tel. 87654321
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Unterschrift Aussteller \_\_\_\_\_ Ort, Datum \_\_\_\_\_

## Next steps

*Continue checks of national transposition measures*

*Look in more detail at:*

- **Cost optimal calculations**
- **Independent controls systems**
- **Energy performance certification**
- **National plans for NZEB**
- **National calculation methodologies**

*Start review of EPBD to be finalised by 2017*

## EED - Timeline

30 April 2013

✓ **Indicative national energy efficiency targets**

5 Dec. 2013

□ **Key decisions on energy efficiency obligations (or alternatives)**

1 Jan. 2014

□ **3% renovation obligation starts**

30 April 2014

□ **Long-term strategies for renovation**

5 June 2014

□ **Main transposition deadline**

30 April 2014

□ **National Energy Efficiency Action Plans**

30 June 2015

□ **Assessment of potential in gas and electricity infrastructure**

31 Dec. 2015

□ **Assessment of potential for district heating and cogeneration**

# Our focus going forward

- **Support implementation by Member States**
- **Encourage a comprehensive and structured approach**
- **Closely monitor the implementation of relevant provisions of the EED and EPBD**
- **Improve access to financing**

**Thank you for  
your attention**

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[http://ec.europa.eu/energy/efficiency/index\\_en.htm](http://ec.europa.eu/energy/efficiency/index_en.htm)

