

● EU Energy Policy for Better Buildings – State of Play –

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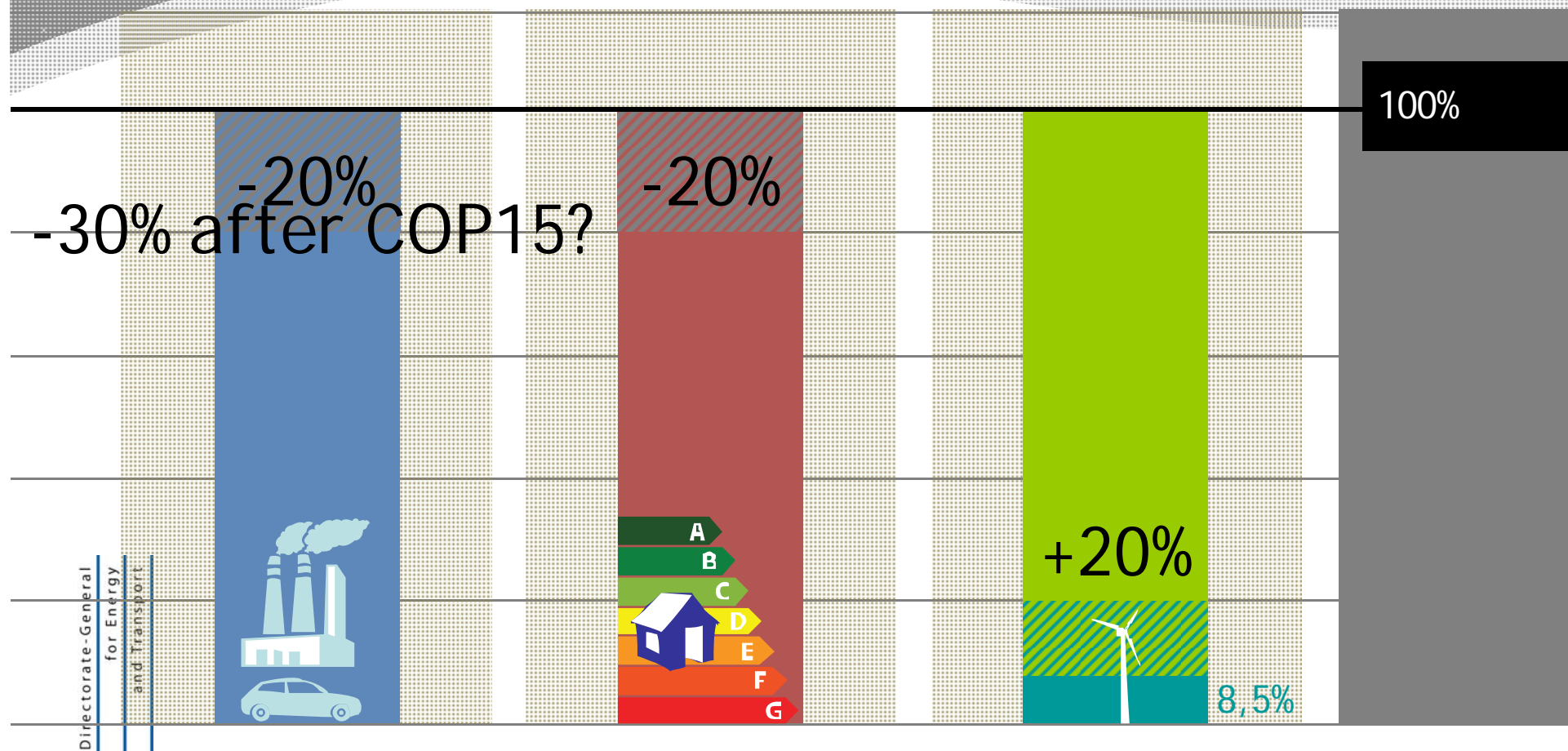
**UNECE Workshop on Energy Efficient Housing,
Vienna, 23 November 2009**

Directorate-General
for Energy
and Transport



EUROPEAN
COMMISSION

The 20-20-20 EU policy by 2020



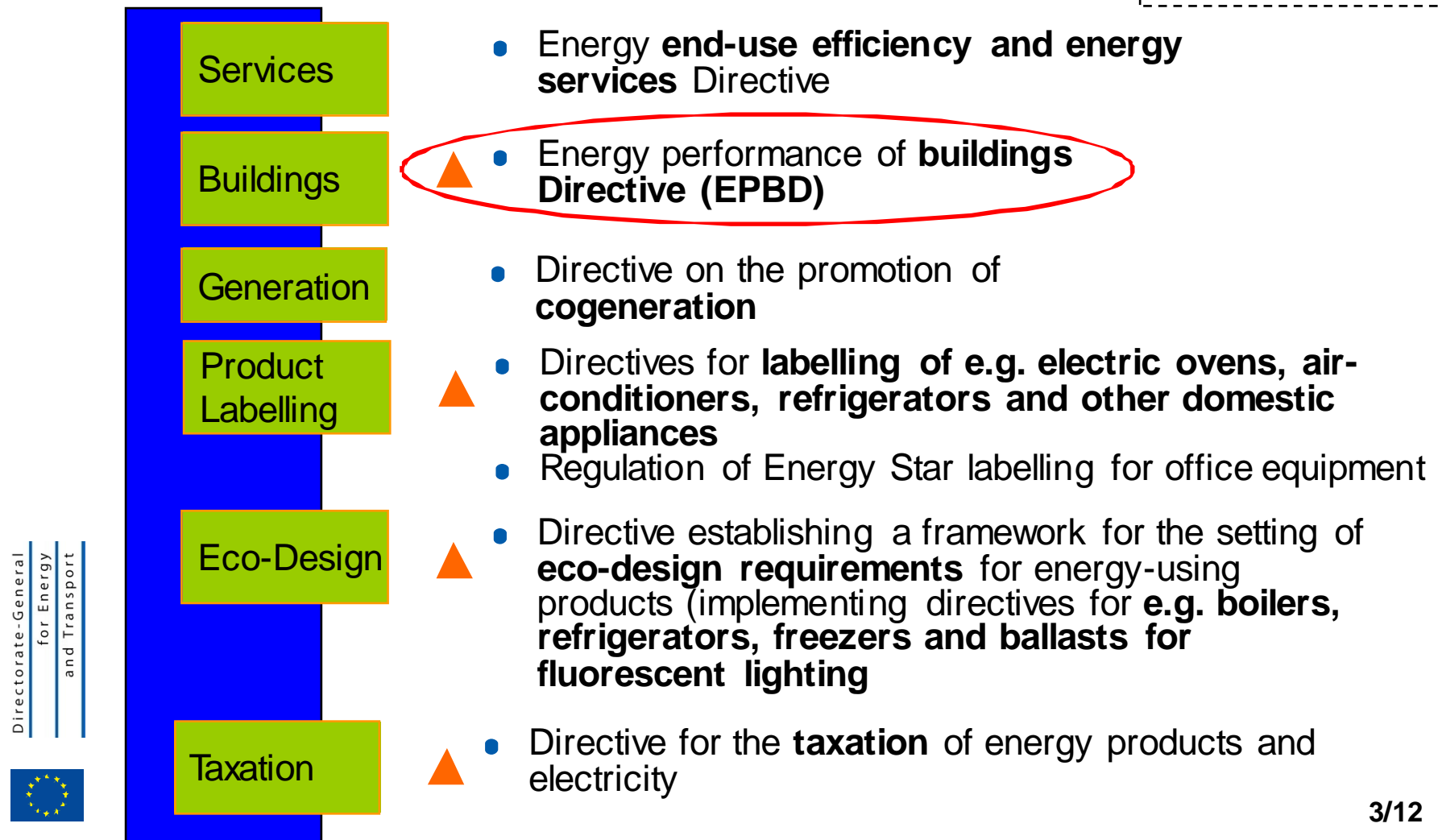
Greenhouse
gas levels

Energy
consumption

Renewables in
energy mix

● Comprehensive set of legislation to enhance energy efficiency

▲ Revision in 2008



● Role of the Building Sector

- 40 % of EU's energy use
- 36 % of EU's CO₂ emissions
- Cost-effective energy savings potential: ~30 % by 2020
- 9 % of GDP, 8 % of employment and €2000 billion annual turnover
- Key EU legislation:

**Energy Performance of Buildings Directive
(EPBD, 2002/91/EC)**



● Energy Performance of Buildings Directive – EPBD (2002/91/EC)

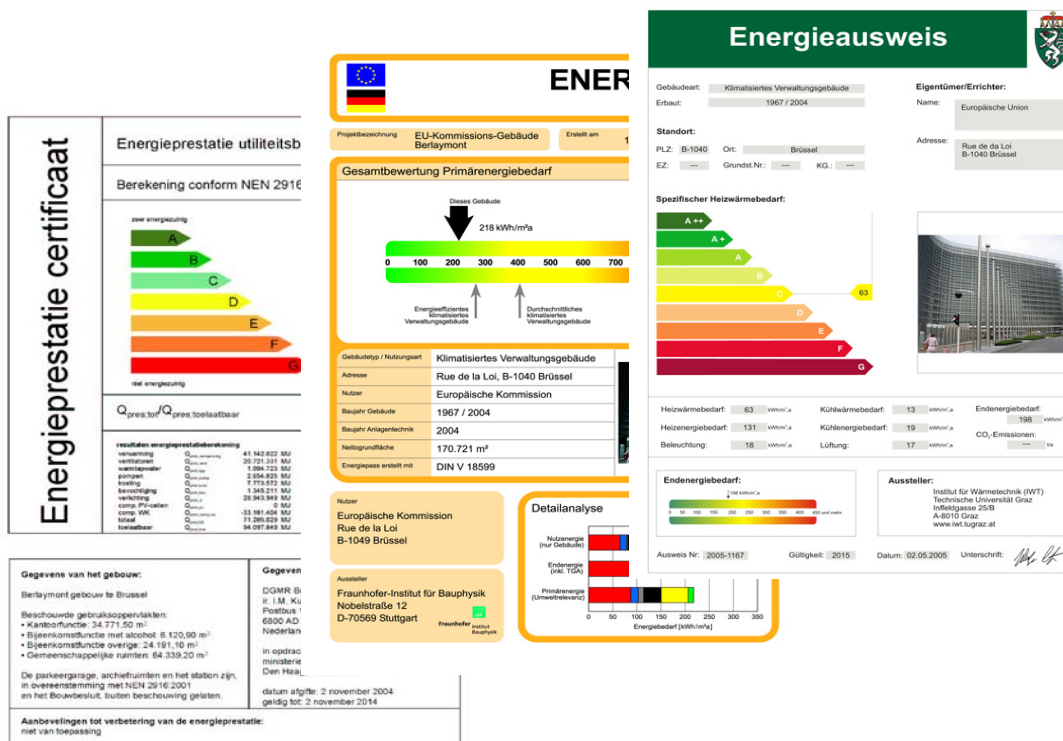
Requirements - for Member States to specify and implement:

- **An integrated methodology to rate the energy performance of buildings**
- **Minimum energy performance standards for new and for existing buildings that undergo major renovation**
- **Energy performance certificates for buildings**
- **Regular inspections of heating and air-conditioning systems**



● EPBD – Energy Performance Certificate

Example for Member States' room for manoeuvre:



● Energy Performance of Buildings Directive – recast(1)

- Stimulating the market entry of low/zero carbon and energy buildings: all new buildings to be nearly zero energy by 2020 (public sector: by 2018)
- Elimination of the 1000 m² threshold for existing buildings when they undergo a major renovation
Eliminating/lowering of the threshold also for
 - Display of Energy Performance Certificates in public buildings
 - Assessment on installation of alternative systems for new build



● Energy Performance of Buildings Directive – recast(2)

- Minimum energy performance requirements for new buildings and renovations: Benchmarking to cost-optimal levels
- Strengthening the role and the quality of energy performance certificates – i.a. quality checks and use of the performance indicator in advertisements for sale or rent
- Strengthening the role and the quality of inspections (HVAC)
- Addressing the public sector to act as leading example
- Clarification/simplification of provisions and definitions



● EPBD recast – What shall e.g. happen?

Energy Performance Certificate



The screenshot shows a web browser window displaying a real estate search results page. The page lists several apartment properties. Two listings are circled with black ovals and labeled 'Energy Class D'. The first listing is for a 2-bedroom apartment in 1000 Bruxelles ville. The second listing is for a 2-bedroom apartment in 1040 Etterbeek. A large black oval with the text 'Energy Class D' is positioned over the listings, with arrows pointing to the two circled listings.

Property Type	Location	Rooms	Area	Price
Appartements	1000 Bruxelles ville	2 ch.	100 m²	50.000 € / 625€
Appartements	1000 Bruxelles ville	2 ch.	100 m²	50.000 € / 625€
Appartements	1000 Bruxelles ville	2 ch.	100 m²	50.000 € / 625€
Loft/Entrepôt	1020 Laeken	2 ch.	100 m²	50.000 € / 625€
Appartements	1040 Etterbeek	2 ch.	84 m²	1070 Anderlecht
Appartements	1050 Ixelles	6 ch.	1050 Ixelles	1050 Ixelles
Appartements	1050 Ixelles	9 ch.	1050 Ixelles	1050 Ixelles
Appartements	1070 Anderlecht	2 ch.	84 m²	1070 Anderlecht

● Support activities on energy efficiency

Networks

Covenant
of
Mayors

Sustainable
Energy
Europe
Campaign

ManagEnergy
network

Measures & programmes

IEE information
& dissemination
projects
(EACI)

Projects in
FP 6 & 7 incl.
Ecobuildings,
Concerto

EMAS
scheme

Legislation implementation support

Concerted
Action

Build Up
Initiative

Mandates for
CEN standards

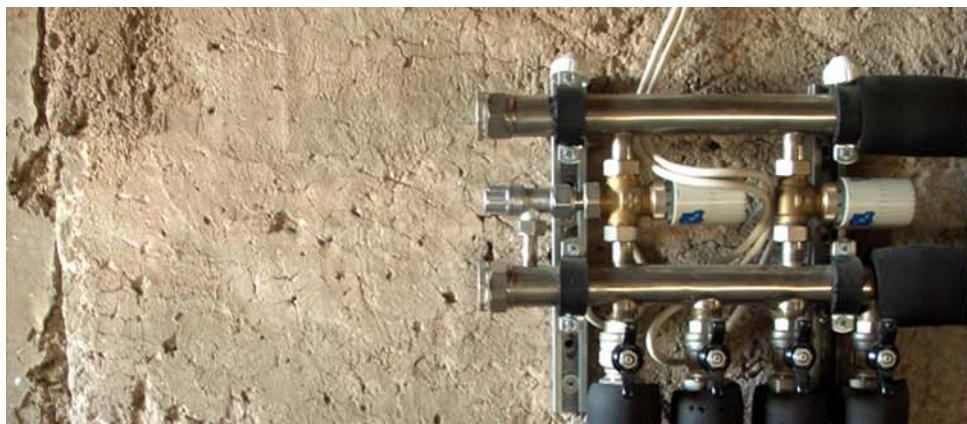
● Impact of the EPBD recast

- 5 - 6 % saving of EU's total energy consumption
- 5 % saving of EU's total CO₂ emissions
- 280,000 – 450,000 potential new jobs

... by 2020 (and cumulatively more beyond)

- Low/zero, predominantly negative
CO₂ abatement costs





**URGENT ACTION IS NEEDED NOW
TO BOOST RENOVATIONS AND TO
ACHIEVE OUR CLIMATE TARGETS...**

