



Energy efficiency in buildings and building-integrated photovoltaics

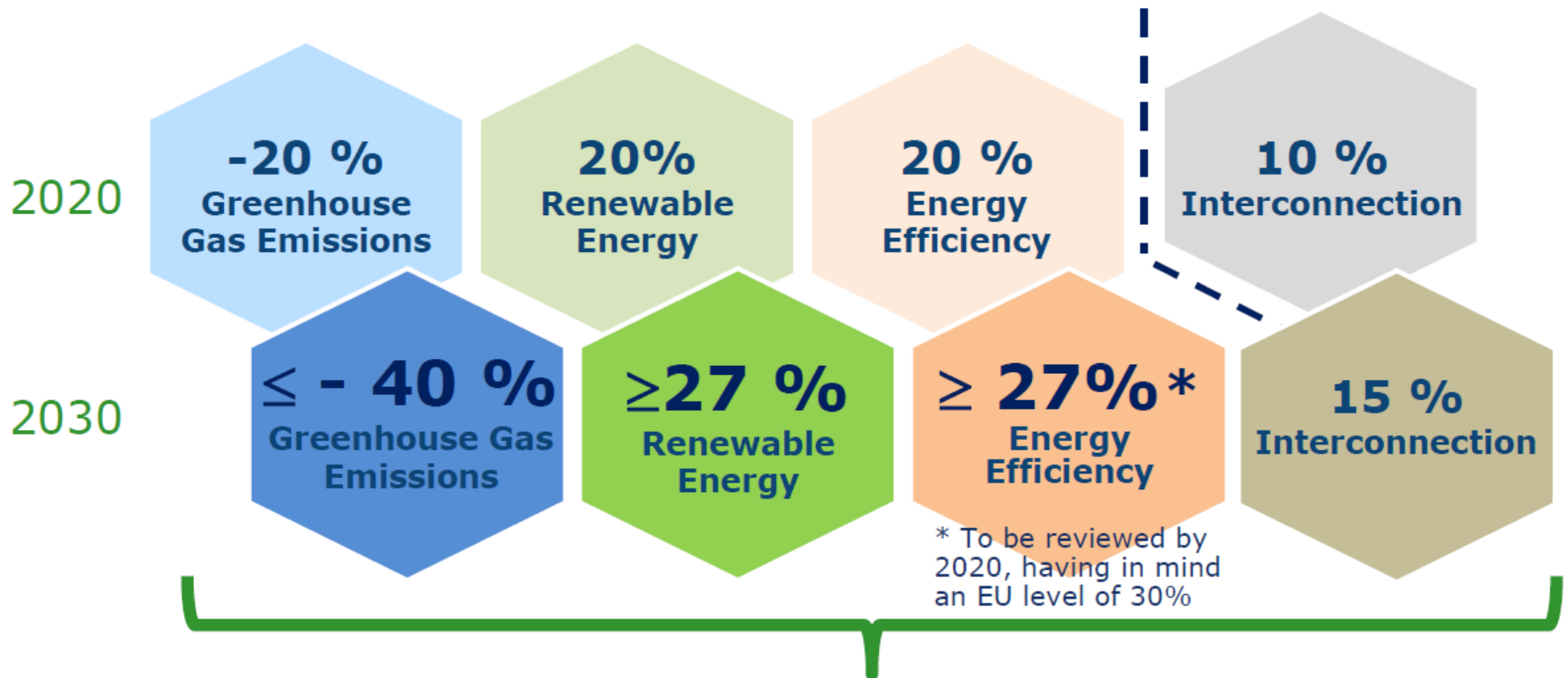
*EU PV Technology Platform
8 July 2015, London*

*Laurent Deleersnyder
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Unit C3, Energy efficiency*



2030 framework for climate and energy policies

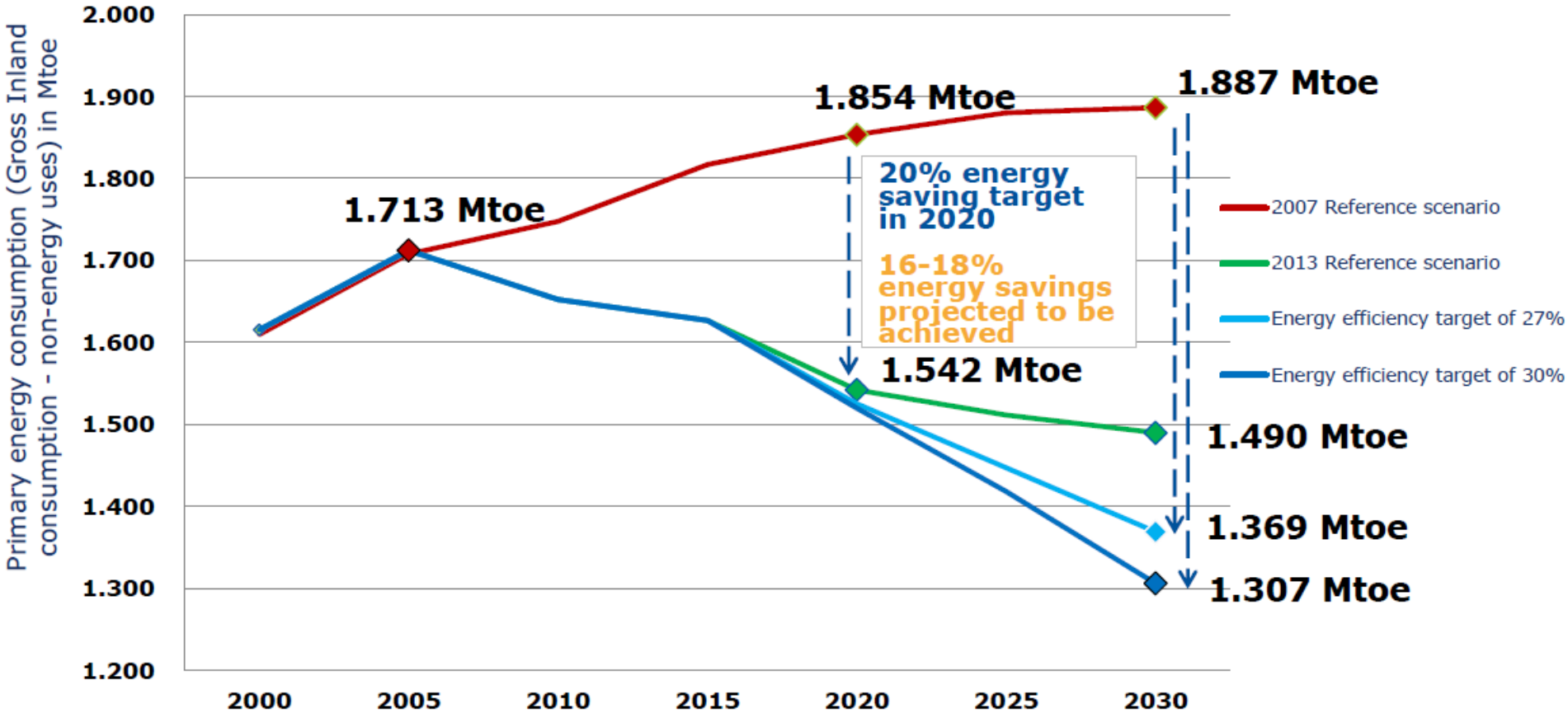
[COM(2014)15 & COM(2014)520] European council of 23-24/10/2014



New governance system + indicators



Better enforcement would close the gap to the 2020 Energy Efficiency target





Directive 2010/31/EU is the main instrument addressing building efficiency

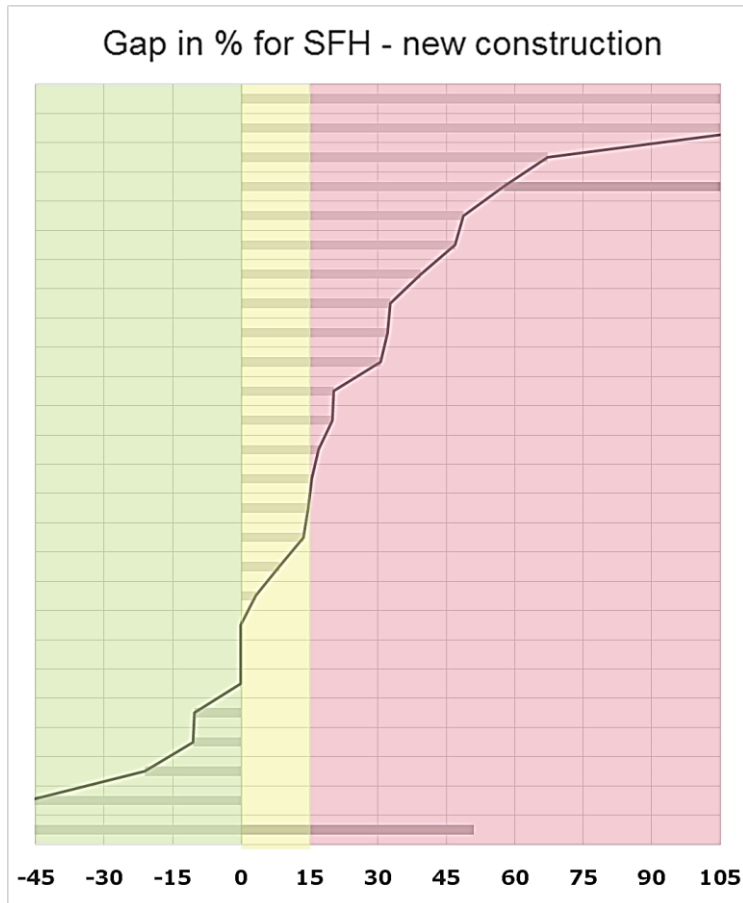
Energy performance approach:

- **Asset rating to value the building as such**
- **Minimum performance standards for buildings**
- **Certification and recommendations**
- **Nearly zero-energy building targets for new buildings**

Underpinned by a "technology neutral" benchmarking system to improve the level of ambition and keep it under review



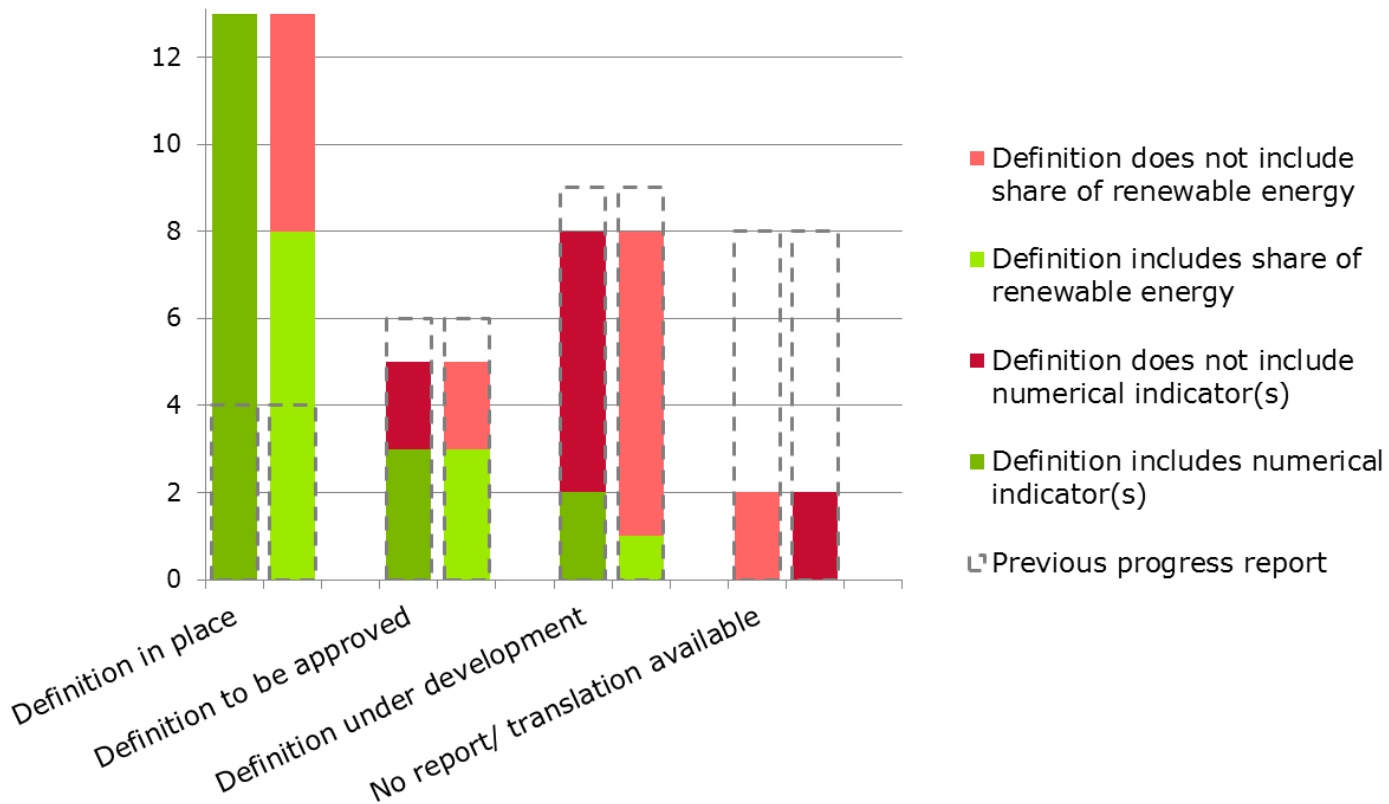
Cost-optimality of minimum energy performance requirements



- About 2/3 of the MSs results reveal improvement potential
- About half of the MS have a gap >15%
- Similar picture for renovation – building and component level (wall, roof) and for different reference cases (MFH, Office)
- Many MSs show different gaps for different requirements
- Less frequent: similar gaps for all requirements

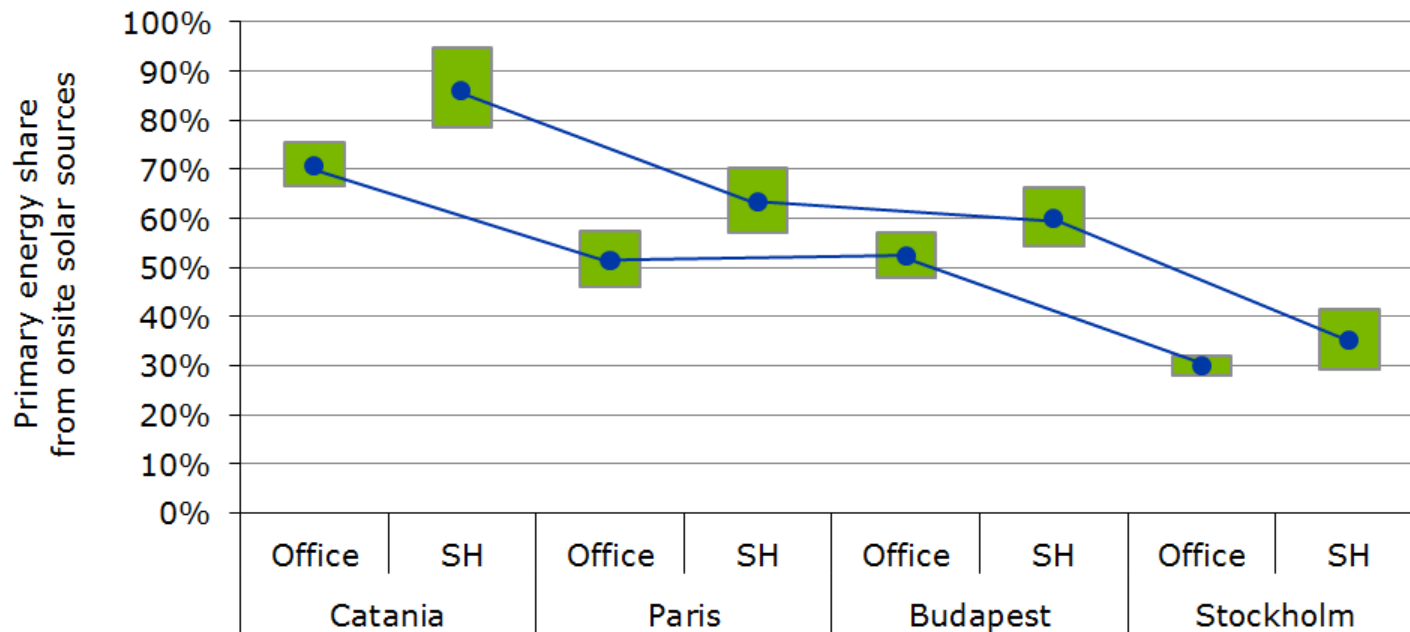


Positive trend towards nearly zero-energy targets





Estimated share of onsite renewable involved in nearly zero-energy buildings



Source: ECOFYS



Standardisation mandate M/480

Methodology calculating the integrated energy performance of buildings

- **Modular structure** (M11 for electricity production)
- **Flexible but transparent description of national choices** (Normative Annex A)
- **Default options** (Informative Annex B)
- **Full set available 1st quarter of 2016**

DIS 52000/prEN15603 (Overarching calculation): Ready for public enquiry
prEN15316-4-3 (Photovoltaic systems): Public enquiry closed on 9/03/2015



Energy Union Communication

[COM(2015)80] and European council of 19/03/2015

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:





"Energy efficiency first"

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.*

9. In 2015 and 2016, the Commission will **review all relevant energy efficiency legislation**

10. The Commission will develop a **Smart Financing for Smart Buildings** initiative to make existing buildings more energy-efficient, facilitating access to existing funding instruments



Review of Directive 2010/31/EU

Review process until end 2016, in line with the EPBD- "by 1st January 2017"

- **Experience from application**
- **Is the Directive (still) fit for purpose?**
- **Analyse aspects such as building and finance related provisions in the Energy Efficiency Directive (e.g. national long term renovation strategies) or those related to district energy, retail, building automation and control**



Review of Directive 2010/31/EU

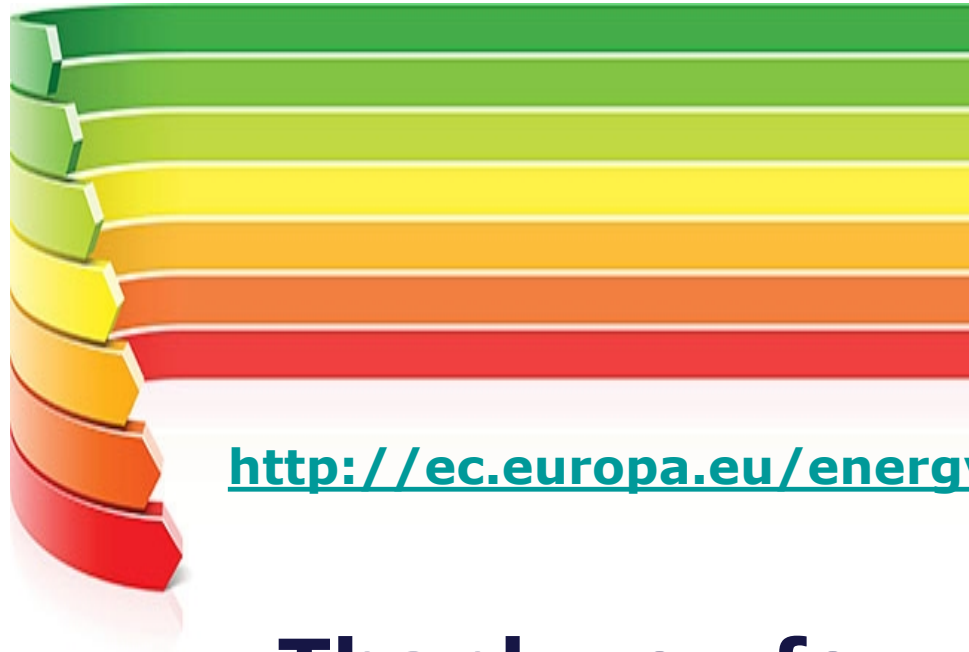
Broad public consultation running for 4 months

- **From 30/06/2015 to 30/10/2015**
- **Section F: progress with respect to the share of renewable energy in efficient buildings**

Get involved at



<http://ec.europa.eu/energy/en/consultations>



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Thank you for your attention.