

# What new EU policies for more energy efficient buildings?

Directorate-General  
for Energy



**EUPOPP Workshop**  
**Brussels, 15 November, 2010**

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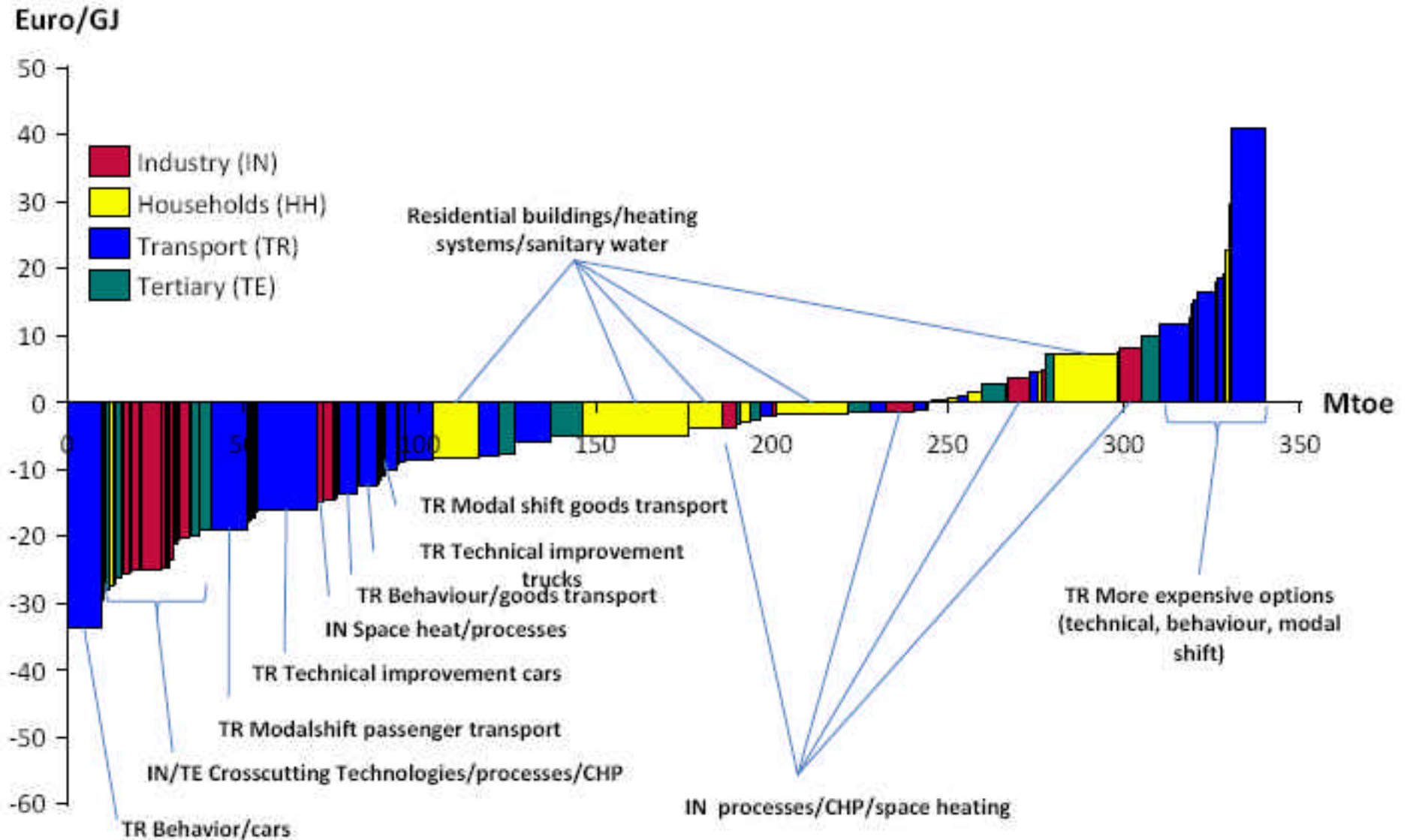
# Buildings: At the core of EU prosperity

- § 40 % of EU energy use
- § 36 % of EU CO<sub>2</sub> emissions
- § 9% of EU GDP
- § 7-8% of EU employment



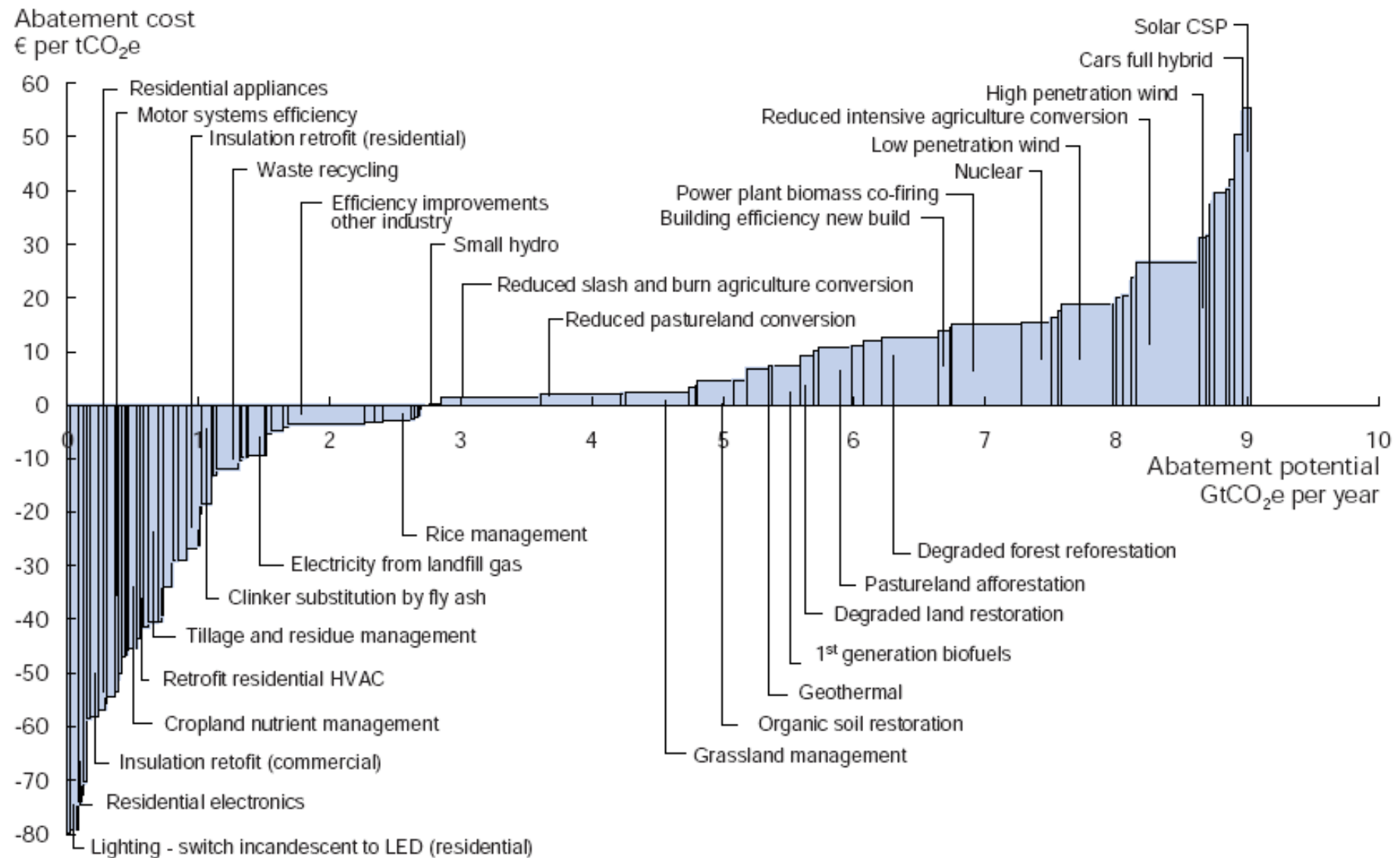
- § Significant cost-effective savings potential
- § Low or negative CO<sub>2</sub> abatement costs
- § Jobs creation/retention
- § Very diverse and highly disaggregated, subsidiarity aspects

# Overall cost-curve for energy efficiency in end-use sectors for EU27, 2020



(source: ECF study based on Fraunhofer et al., 2010).

## Global GHG abatement cost curve beyond business as usual – 2015



Note: The curve presents an estimate of the maximum potential of all technical GHG abatement measures below €60 per tCO<sub>2</sub>e if each lever was pursued aggressively. It is not a forecast of what role different abatement measures and technologies will play.

Source: Global GHG Abatement Cost Curve v2.0

# EU legislation to enhance buildings' energy efficiency

## Overarching

- Energy end-use efficiency and energy services Directive
- Effort Sharing Decision

## Buildings

- Energy performance of buildings Directive (EPBD)
- RES Directive
- Construction products regulation

## Product policy

- Ecodesing Directive and implementing measures
- Energy Labelling Directive and its 'daughter' Directives
- Regulation of Energy Star labelling for office equipment

## Financing and Fiscal

- Directive for the taxation of energy products and electricity
- VAT Directives
- State aid guidelines
- Cohesion funds governing regulations

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# New Buildings Directive (recast EPBD)

∅ Published in the Official Journal: June 2010

∅ Holistic approach as regards energy use in new and existing buildings

∅ Principles of original EPBD kept

∅ Framework legislation

∅ Transposition July 2012, application by Jan/July 2013

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## **New EPBD: Min. energy performance requirements**

- Ø **Set by Member States for all new and existing buildings (undergoing a major renovation) with a view of achieving cost-optimal levels**
- Ø **Set by Member States also for technical building systems and building elements when installed, replaced or upgraded**
- Ø **Commission develops benchmarking methodology to compare the level of ambition**
- Ø **All new build “nearly zero-energy buildings” as of end of 2020 (public 2018)**
- Ø **Alternative systems to be considered and documented for all new build**





# New EPBD: other main instruments

- ∅ **Energy Performance Certificates:**
  - Improved content and better quality
  - Increased role: obligatory use of the performance indicator in all advertisements for sale or rent
  - More visual: display requirements
- ∅ **HVAC inspections: Strengthen role and quality**
- ∅ **Stimulating financing**
- ∅ **MS to introduce penalties for non-compliance**



# Support measures and networks

**EPBD  
implementation  
support**

**Committees  
Concerted  
action EPBD**

**CEN EPBD  
standards**



**Measures &  
programmes**

**IEE programme  
project funding**

**FP 7 projects  
incl. Concerto**



**Under preparation**

**Networks**



**Sustainable  
Energy Europe  
Campaign**

**ManagEnergy  
network**

# Financial and fiscal tools..

## ∅ Cohesion policy funds:

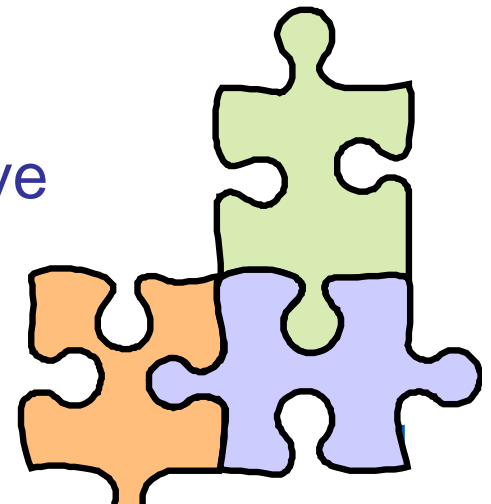
§ housing EE&RES projects now eligible for funding (up to 4% of the total ERDF allocation)

§ possibility open for the creation of revolving funds

## ∅ ELENA facility, unspent recovery money

## ∅ State aid possible (under certain conditions)

∅ VAT reduced rates possible for labor-intensive services possible (under certain conditions)



# What next?

- **Energy 2020: A strategy for competitive, sustainable and secure energy**
  - Innovative financial instruments
  - Conditionality on the spending of public funds
  - Energy service companies
  - Increased role of energy companies
- **New Energy Efficiency Plan 2011-2020**
- **Legislative proposals in 2011 and beyond**

Thank you for your attention!!!

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

<http://buildup.eu>