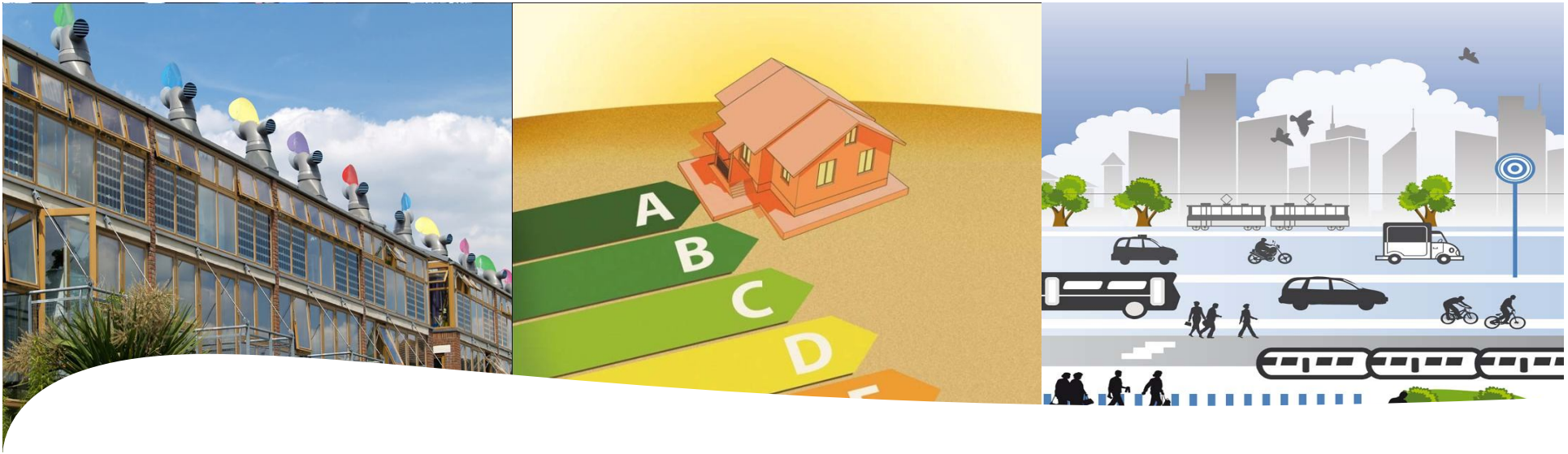




Energy Efficiency as a priority in the European energy and climate policy: the 2011 Energy Efficiency Plan

Directorate-General
for Energy

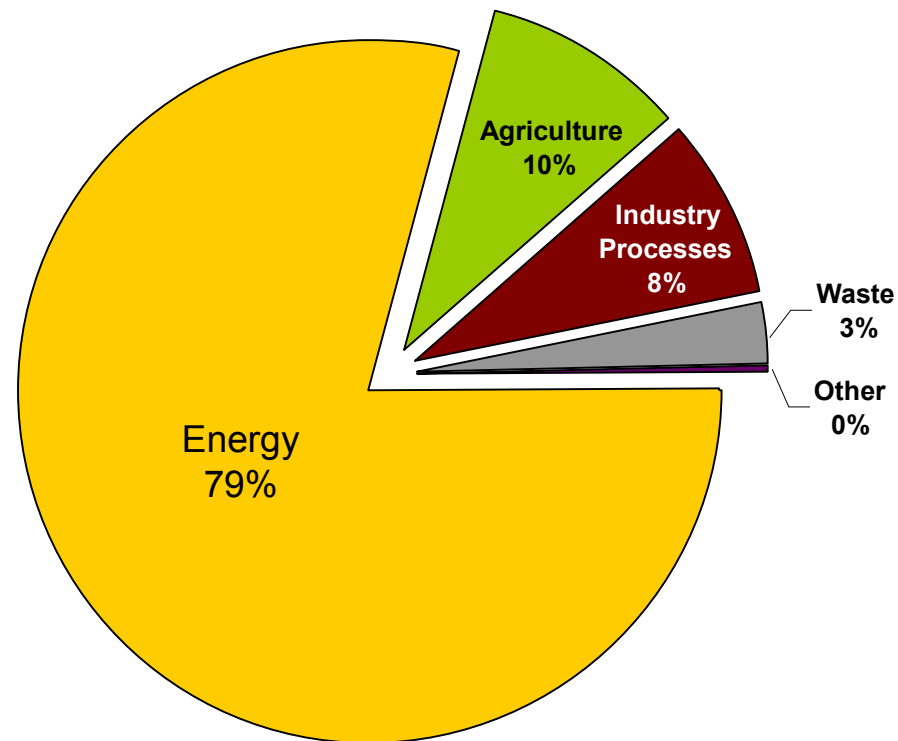


Marie Donnelly. Directorate C “*New and Renewable sources of energy, Energy efficiency & Innovation*”. DG Energy. European Commission.

NEUF 2011 Conference. Warsaw, 16 June 2011.

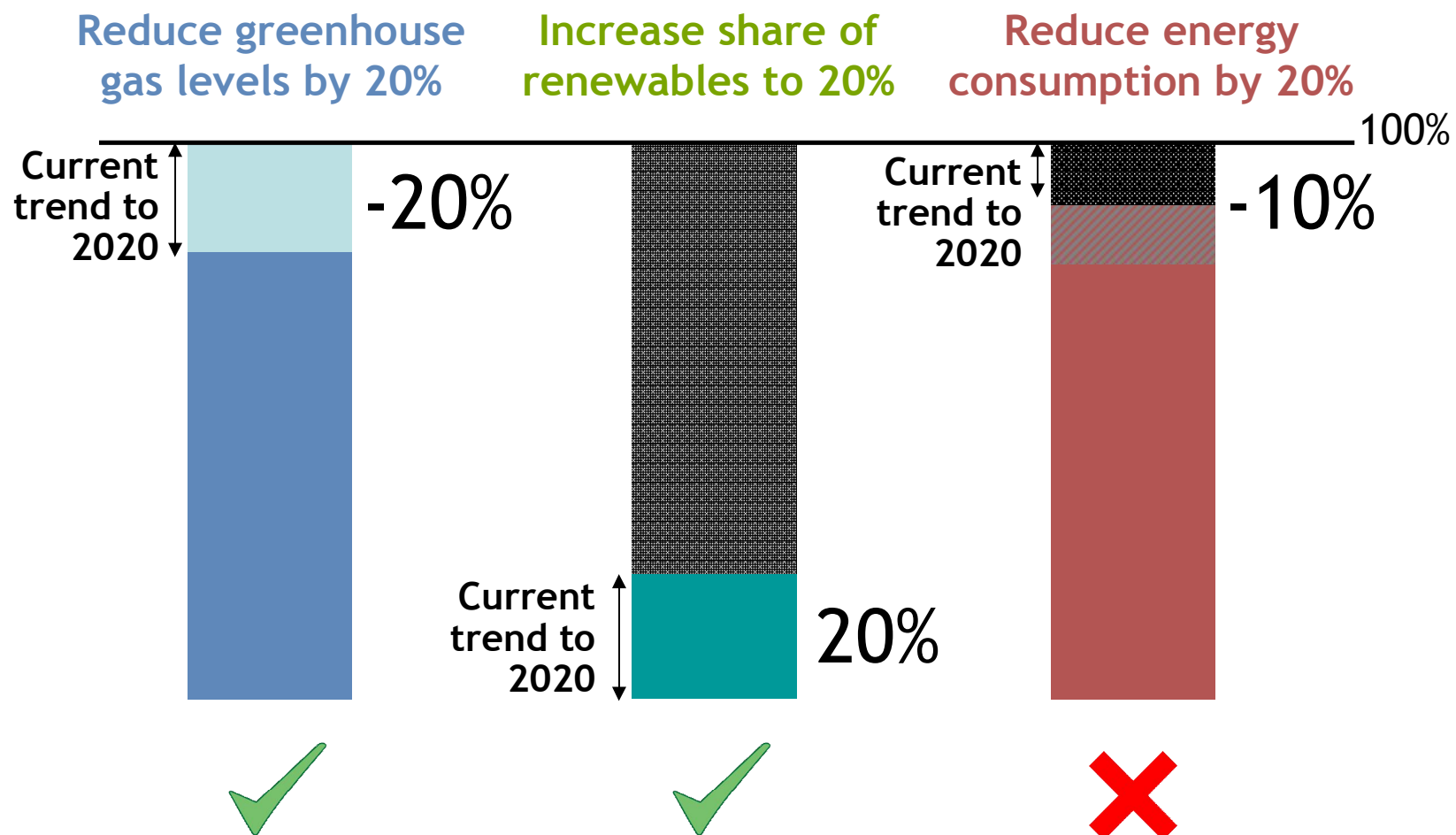
ENERGY HAS A STRONG LINK WITH CLIMATE CHANGE

Share of greenhouse gas emissions in 2008



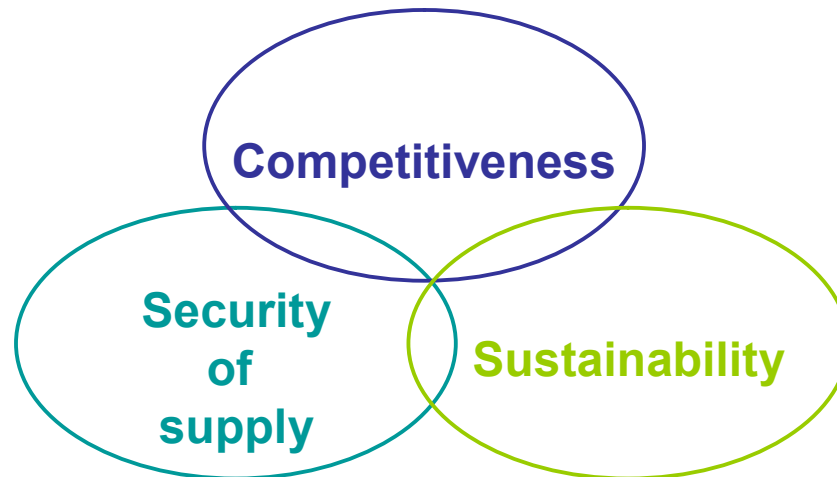
The use of energy is responsible for the majority of greenhouse gas emissions, with the energy sector representing 31%, transport 19%, industry 13%, households 9% and others 7%.

ENERGY EFFICIENCY HAS A SIGNIFICANT ROLE IN EUROPE'S DECARBONISATION



BUT IT ALSO CONTRIBUTES TO IMPROVE ENERGY SECURITY AND COMPETITIVENESS

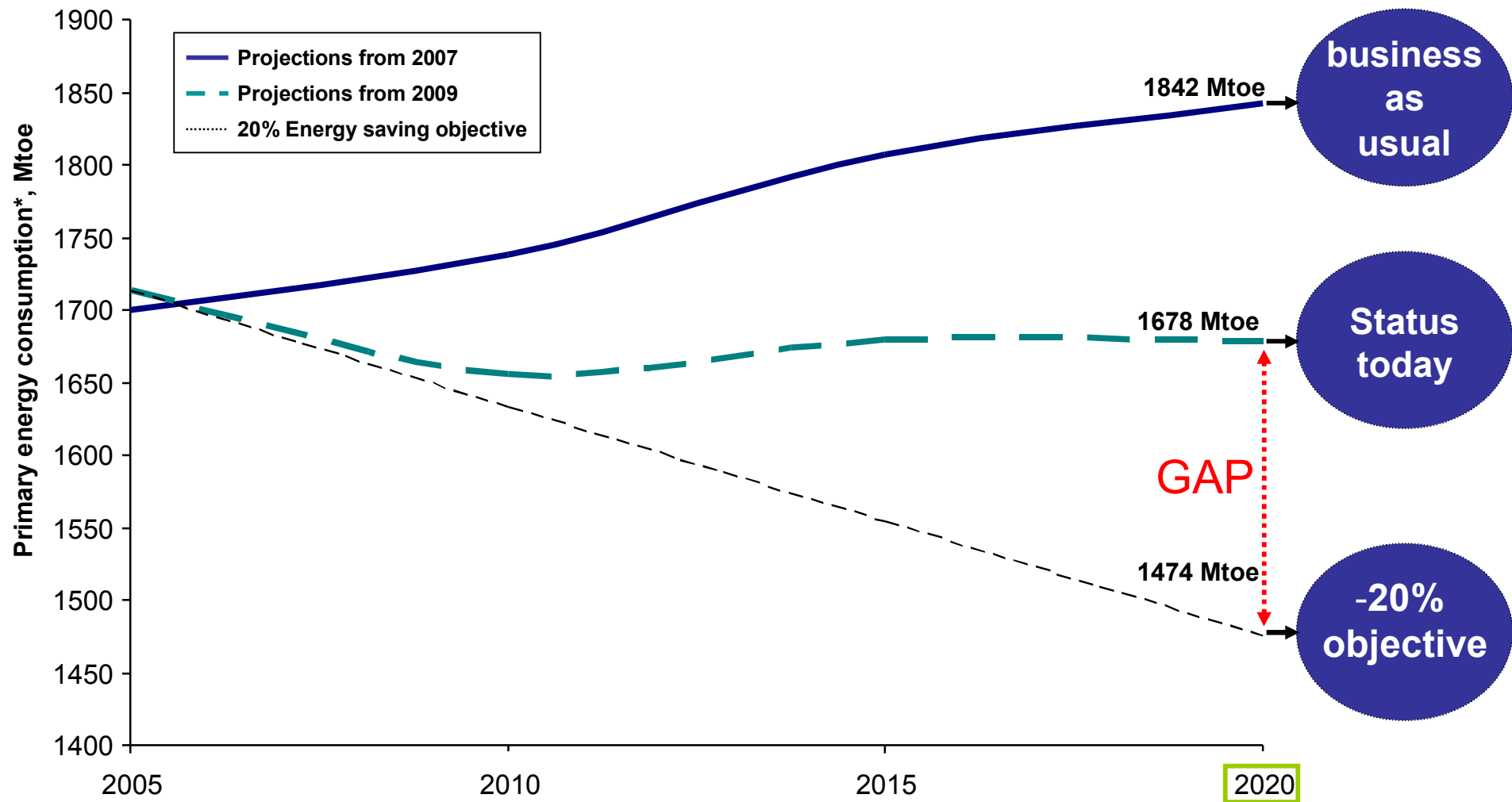
- ↓ Reduce EU's energy bill and help fight against energy poverty
- ↑ Create up new jobs (eg. sustainable technologies and construction sectors)
- ↑ Boost R&D & markets for EU global leadership



- ↓ Reduce EU's energy dependence
- ↓ Reduce investments in energy infrastructures
- ↑ Improve the energy trade balance

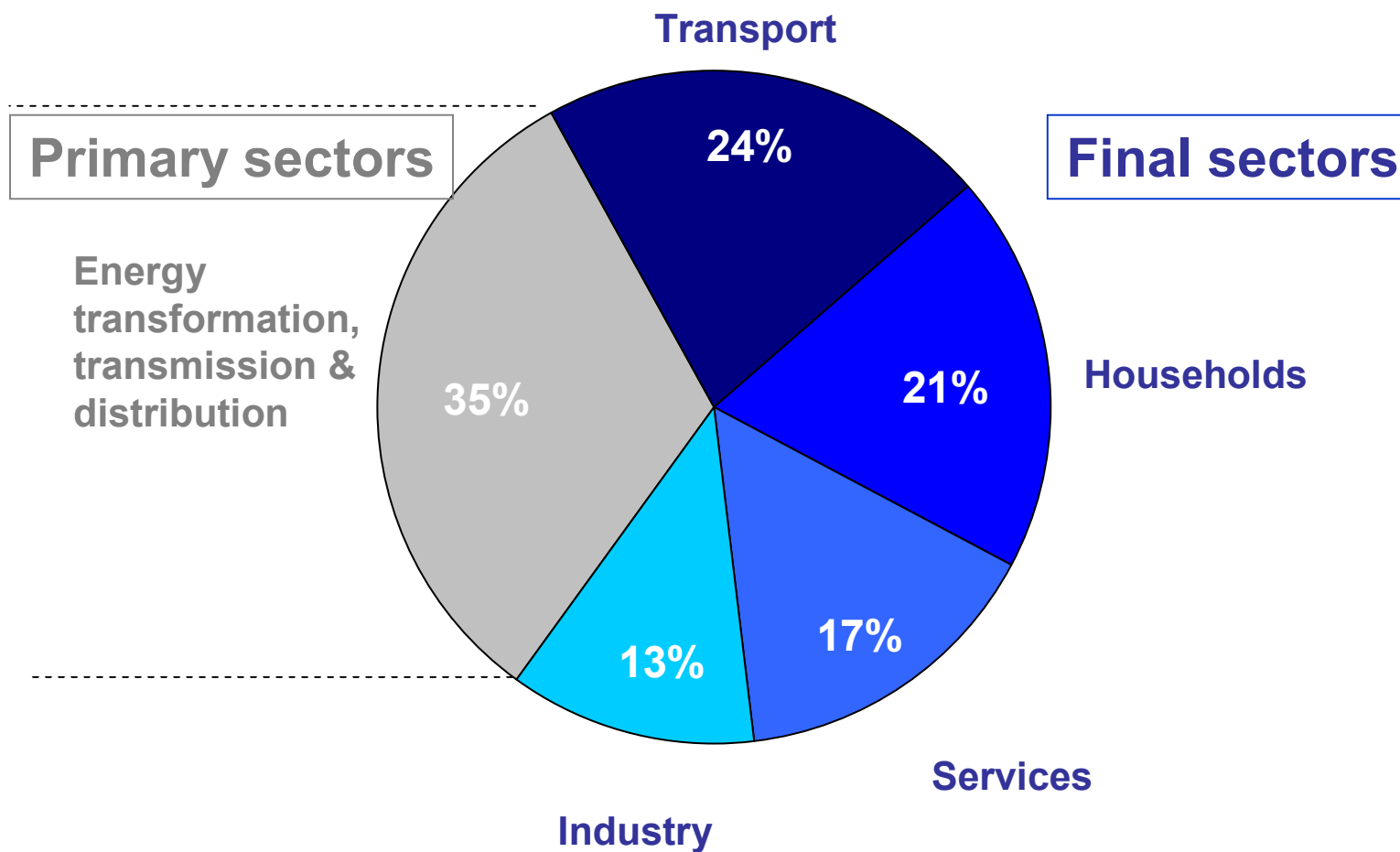
- ↓ Reduce Mt CO₂ emissions
- ↓ Limit environmental degradation

SO FAR THE EU IS NOT ON TRACK TO MEET ITS 20% ENERGY SAVING TARGET BY 2020



* Gross inland consumption minus non-energy uses

THERE REMAIN SUBSTANTIAL COST-EFFECTIVE ENERGY SAVING POTENTIALS THROUGHOUT ALL SECTORS



OVERVIEW OF KEY ELEMENTS OF THE NEW EEP

Energy efficiency targets

Sectoral energy efficiency measures

Horizontal energy efficiency measures

Two step approach:

- **2011:** Stringent binding energy efficiency measures and indicative national targets (set by MS in the context of Europe 2020 and their NRPs)
- **2013-14:** COM to assess progress. In case of likely non achievement of EU target by 2020, COM will propose binding national targets

Sectors with important energy efficiency potentials

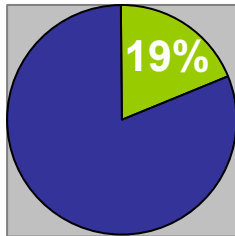
- Leading role of the public sector
- Buildings and appliances
- Transport
- Industry (incl. energy supply)

Initiatives facilitating energy efficiency:

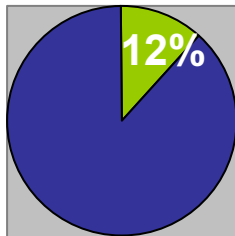
- Leveraging private investments through EU financing
- Incentives
- Smart grids incl. smart meters

PUBLIC SECTOR TO LEAD BY EXAMPLE

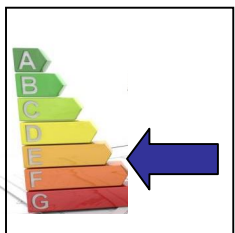
Status



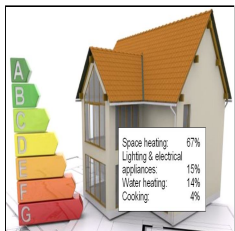
- Public sector consumption makes important share of EU's GDP



- Share of public buildings in building stock



- Low average energy performance of existing buildings stock, incl. public buildings



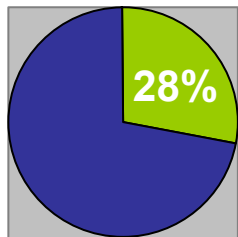
- Cost optimal renovation can bring up to 60% energy savings

EEP proposals

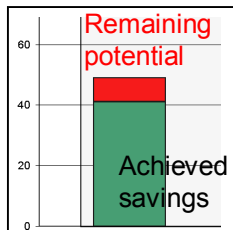
- High energy efficiency standards when purchasing goods, services and works.
- Annual 3% refurbishment (by floor area) bringing the energy performance level.
- For additional buildings to be rented/ purchased, these should be of the best available energy performance class.
- Further use of energy performance contracting.
 - Further promotion of the Covenant of Mayors.
- Launch of a new Smart Cities & Smart Communities initiative

ENERGY EFFICIENCY FOR A COMPETITIVE INDUSTRY

Status



- Important share in overall final energy consumption



- Considerable progress made but important potential unused: **13%**



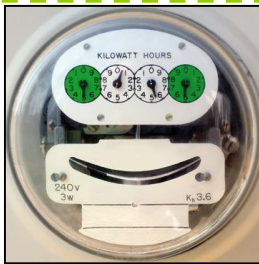
- Energy efficient technologies and EE best practices readily available

EEP proposals

- Integrated approach tackling heat losses from electricity & industrial production processes through CHP and DH/DC
- Possible future legislation, if current energy generation capacity does not reflect Best Available Techniques
- Mandatory energy audits for large companies and EU support to SMEs
- Additional ecodesign measures on household and industrial products
- National energy saving obligation schemes for energy utilities.

EMPOWERING CONSUMERS TO MANAGE THEIR CONSUMPTION & HORIZONTAL MEASURES

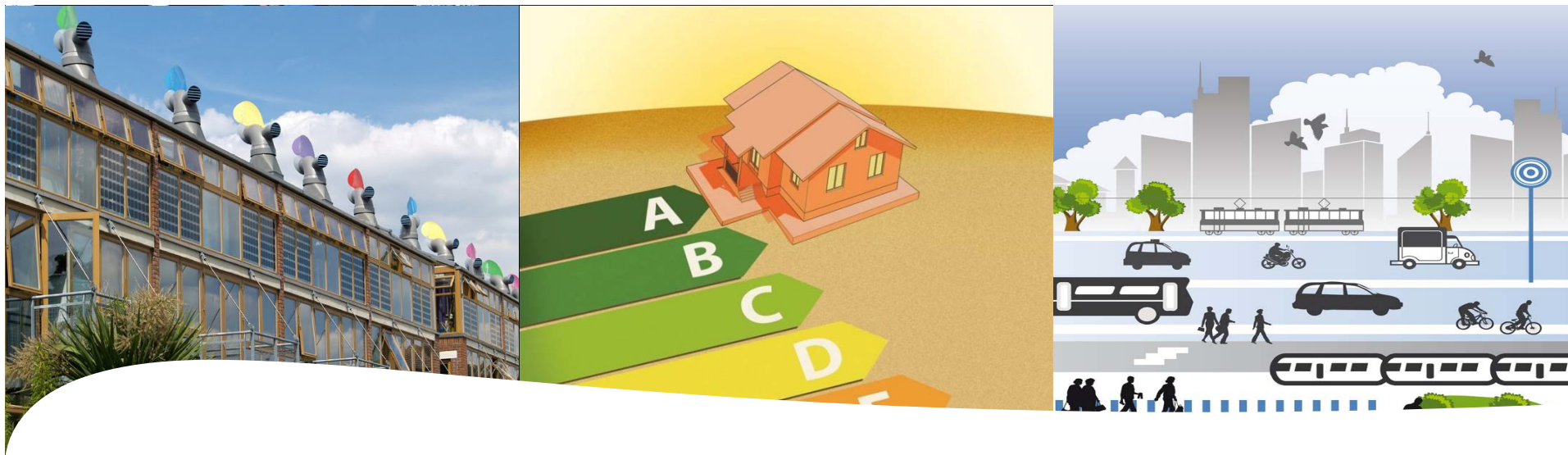
Status



- Considerable saving potential unused: **21%**
- Obstacles to energy efficiency:
 - Lack of awareness & information
 - Regulatory obstacles (e.g. accounting and procurement rules)
 - Lack of skilled professionals

EEP proposals

- **Improved information** to consumers on their energy consumption (**smart grids/meters**)
- MS to introduce measures to address the “**split of incentives**” issue according to private property
- **Training and Qualification initiative** (BUILD UP Skills) and adaptation of national academic curricula to reflect energy efficiency qualification needs
- MS to provide market overviews, **registries** of energy services providers and **model contracts**.



Thank you!

The Energy Efficiency Plan and accompanying documents are available in:

http://ec.europa.eu/energy/efficiency/action_plan/action_plan_en.htm

For more information of EU energy efficiency policies:

http://ec.europa.eu/energy/efficiency/index_en.htm

POSSIBLE TIME PLANNING AFTER ADOPTION

