

The proposal for a new Directive on Energy Efficiency

Directorate-General
for Energy

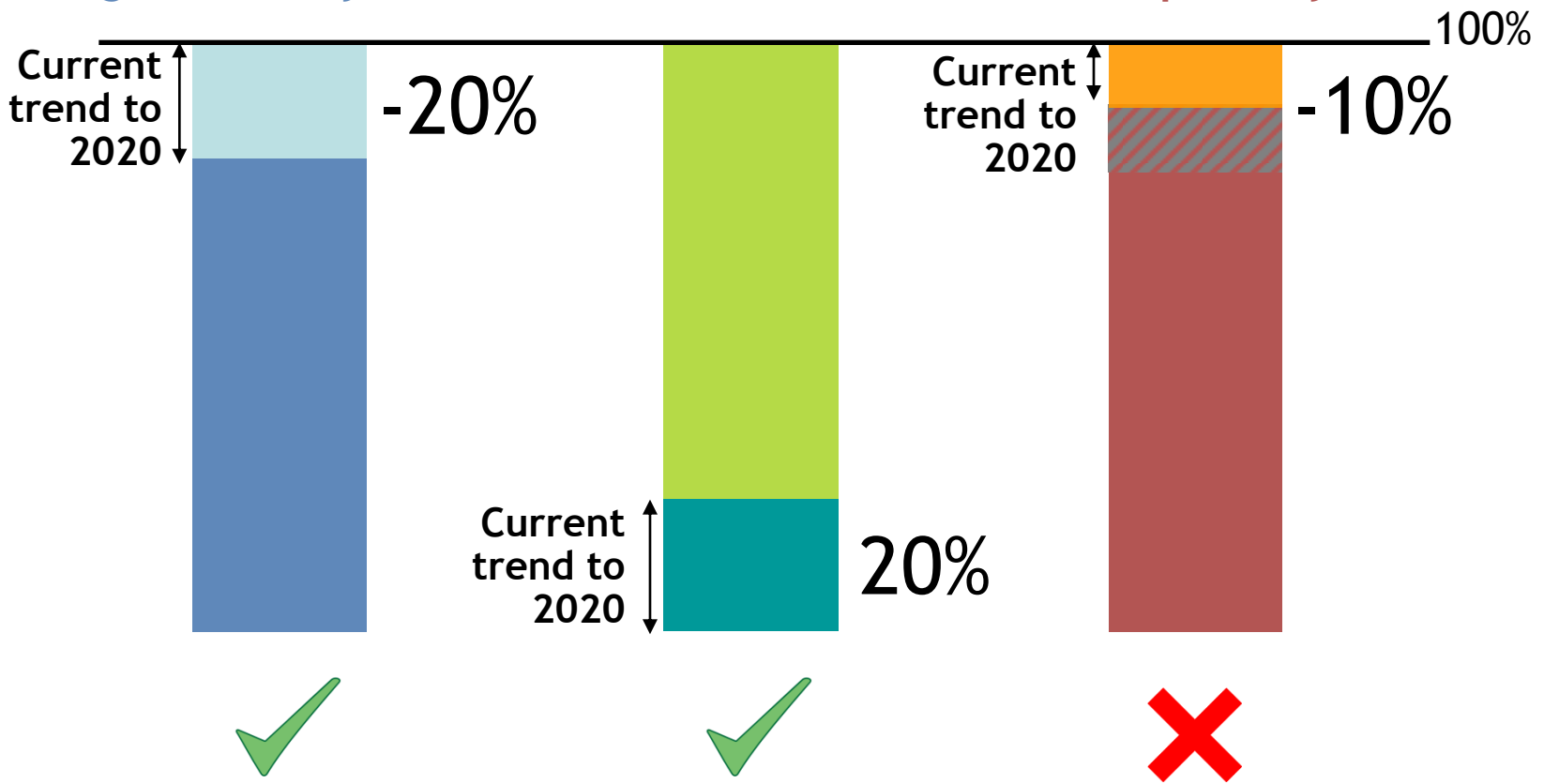


MEETING ALL THREE “20-20-20 BY 2020” GOALS BECOMES A MATTER OF URGENCY

Reduce greenhouse gas levels by 20%

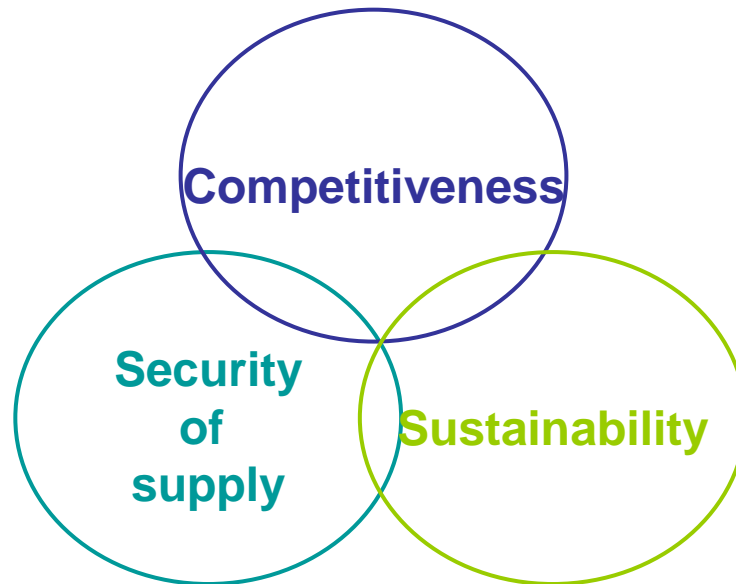
Increase share of renewables to 20%

Reduce energy consumption by 20%



ENERGY EFFICIENCY OFFERS CRUCIAL BENEFITS

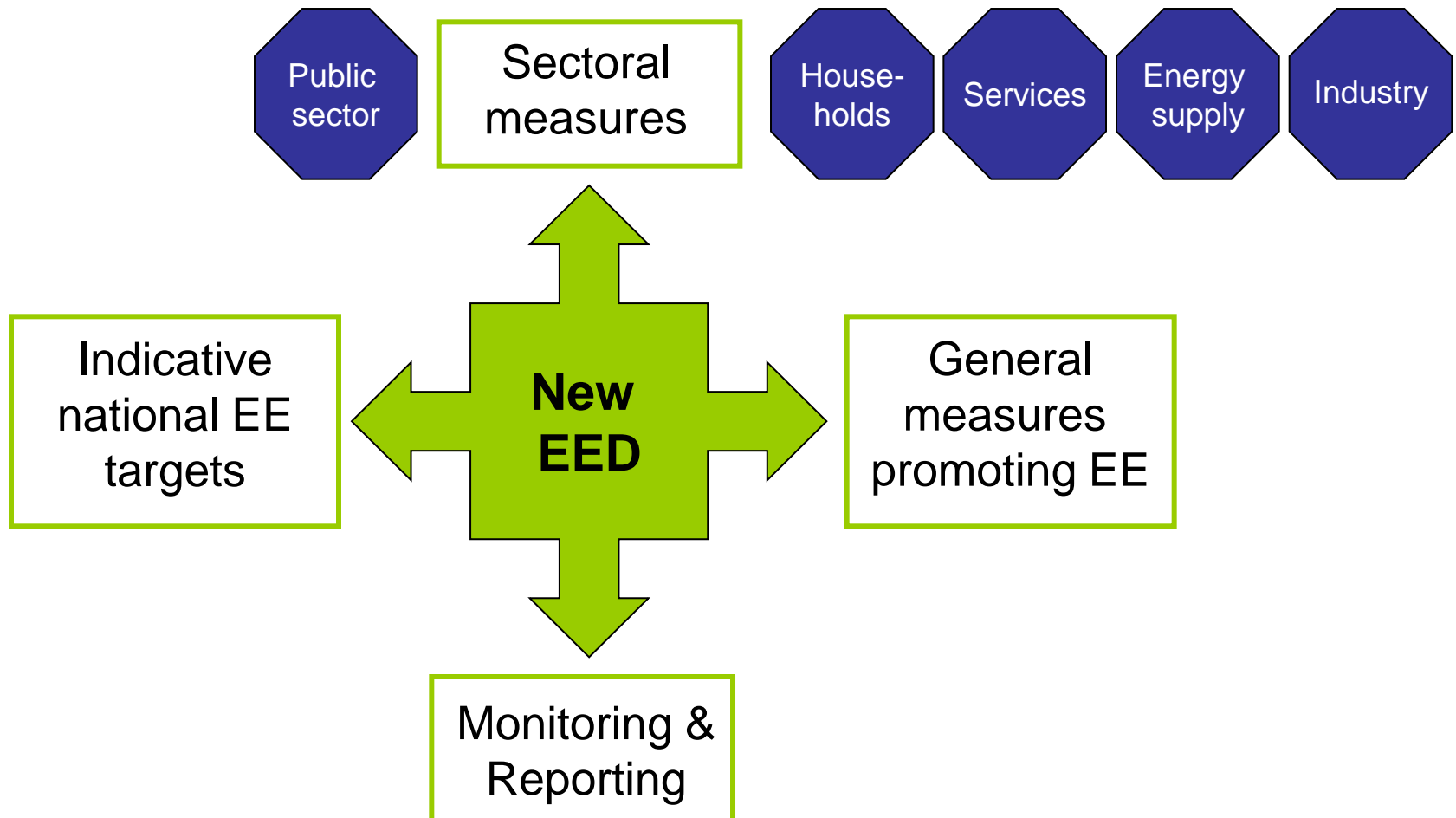
- ↓ Reduce EU's energy bill by about € 200 bn annually in 2020
- ↑ Create up to 2 million new jobs by 2020
- ↑ Boost R&D & markets for EU global leadership



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

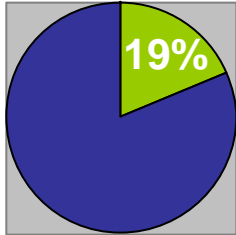
- ↓ Reduce CO₂ emissions
- ↓ Limit environmental degradation

A NEW IMPETUS IS NEEDED: THE PROPOSAL FOR A NEW ENERGY EFFICIENCY DIRECTIVE

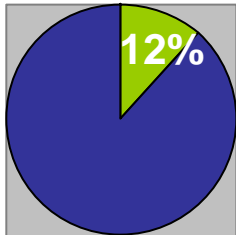


PUBLIC SECTOR TO LEAD BY EXAMPLE

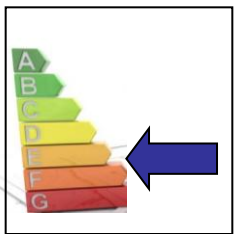
Status



- 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



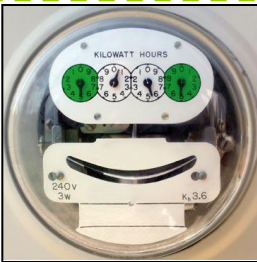
- Cost optimal renovation can bring up to 60% energy savings

EED proposals

- Purchase of **products, services & buildings** with **high energy efficiency standards**
- Annual **renovation target of 3% for public buildings above 250 m²**
- Local energy **efficiency plans** and introduction of **energy management systems**
- More **systematic use of Energy Performance Contracting**

CONSUMERS : TAILORED ENERGY SERVICES AND INFORMATION

Status



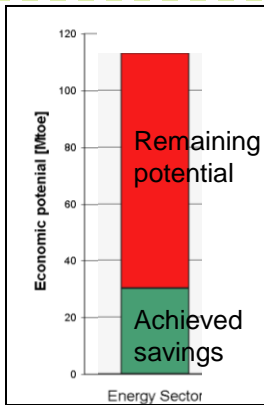
- Considerable saving potential unused in the residential and services sectors
- Slow uptake of market for energy efficiency services
- Lack of awareness & access to appropriate information on EE benefits
- Technological developments (e.g. smart meters/ grids) not sufficiently reflecting households interests

EED proposals

- **National energy efficiency obligation** scheme for utilities
- **Obligation for individual energy meters**, reflecting actual energy consumption & information on actual time of use
- Ensure **accuracy & frequency** of **billing**, based on **actual consumption**
- Appropriate information with the bill, providing comprehensive account of current energy costs

IMPROVING ENERGY EFFICIENCY IN TRANSFORMATION AND DISTRIBUTION OF ENERGY

Status



- Fragmented regulations & incentives to address waste across supply chain
- CHP uses 30% less fuel for the same amount of heat & power but level of use in EU low: **11% vs. 21%**.
- New generation installations not systematically reflecting level of Best Available Technologies

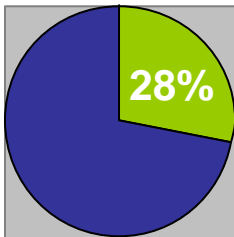


EED proposals

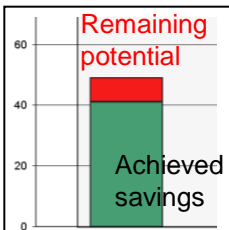
- 10-year national heat & cooling plans: **transparency, predictability & alignment of policies** for investments
- **Waste heat recovery (CHP) obligation** for new and existing power & industrial plants
- **Network tariffs** design to encourage offering **services** for consumers **allowing them to save energy & control consumption**
- National annual inventories of generation installations to monitor efficiency levels

ENERGY EFFICIENCY IMPROVEMENTS IN INDUSTRY

Status



- Important share in overall final energy consumption



- Considerable progress made but potential remaining



- Energy efficient technologies and EE best practices readily available

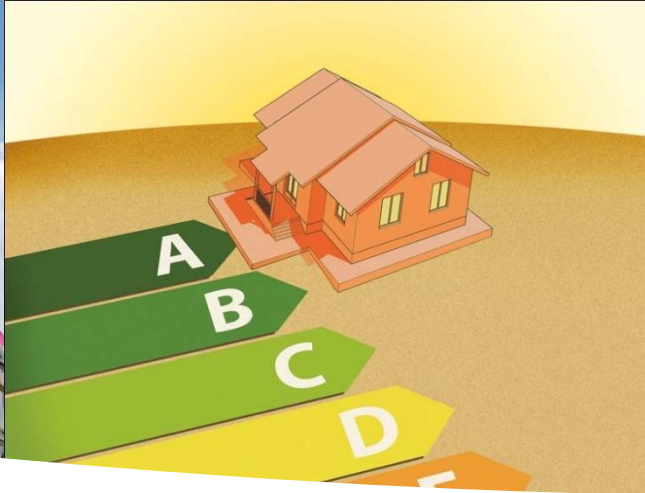
EED proposals

- Member States to create incentives for SMEs to undergo energy audits
- Dissemination of best practices on benefits of energy management systems for SME businesses
- Mandatory audits for large companies & incentives for the implementation of recommended measures and the introduction of Energy Management Systems

Thus : a comprehensive proposal with multiple benefits

Further process : currently discussion in EP and Council

Adoption : Autumn 2012 ?



Thank you!

For further information on energy efficiency please consult our website:

<http://ec.europa.eu/energy/efficiency/>