



Directorate-General  
for Energy  
and Transport

- Energy Efficiency policy and the importance of measurement and evaluation

Harmonised Methods for Evaluating Energy End-Use Efficiency and Energy Services Conference  
Brussels, 15 October 2008



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# Integrated climate and energy policy

## Competitiveness

- **Internal Market**
- **Interconnections** (Trans-European networks)
- **European electricity and gas network**
- **Research and innovation**
  - Clean coal
  - Carbon sequestration
  - Alternative fuels
  - Energy efficiency**
  - Nuclear

FULLY  
BALANCED  
INTEGRATED  
AND  
MUTUALLY REINFORCED

## Sustainable Development

- Renewable energy
- **Energy efficiency**
- Nuclear
- Research and innovation
- Emission trading

## Security of supply

- International Dialogue
- European stock management (oil/gas)
- Refining capacity and energy storage
- Diversification
- **Energy Efficiency**



# Key objectives by 2020

By 2020 -20% **EU GHG**

By 2020 +20% **EFFICIENCY**

By 2020 binding 20% **RENEWABLES** in final energy consumption at EU level

**RES in Transport**  
Min 10% binding

**ELECTRICITY**  
MS binding choice

**HEATING & COOLING**  
MS binding choice

**NATIONAL TARGETS & ACTION PLANS**

# ● Main policy areas on energy efficiency

- Energy Efficiency Action Plan, EEAP
- Legislation
- Support programmes, networks
- Financing, RTD, technology demonstration



# ● Energy Efficiency legislation

- Directive on energy performance of **buildings**
- Directive on the promotion of **cogeneration**
- Directive for the **taxation** of energy products and electricity
- Directive on energy efficiency requirements for **boilers, refrigerators and ballasts for fluorescent lighting**
- Directives for labelling of **electric ovens, air-conditioners and refrigerators and other appliances**
- Regulation of Energy Star labelling for **office equipment**
- Directive on **eco-design requirements** for energy using products
  
- Directive on energy end-use **efficiency and energy services**



# The Energy Services Directive

## *Purpose and objectives*

- Enhance cost-effective improvement of energy end-use efficiency in Member States through
  - » providing necessary indicative targets, mechanisms, incentives and institutional, and legal frameworks to remove existing market barriers and imperfections impeding efficient end use of energy
  - » creating conditions for development and promotion of a market for energy services and for delivery of other energy efficiency improvement measures to final consumers
- To realise the potential and contribute to security of energy supply, competitiveness and sustainable development



# ● National Energy Efficiency Action Plans

*Transposing Article 14(2)*

- The first NEEAPs are forward looking and include the Member State strategies on how the adopted savings target will be achieved
- Implementation of Member States' strategy
- Verification of savings resulting from energy efficiency improvement measures



# Framework for measurement and verification

## *Annex IV*

- Energy Services Directive requires the further refinement of the general framework established in Annex IV of the Directive
- EMEEES supports the Commission in their efforts in this field
- Working Groups work on Top-Down and Bottom-Up measurement methods
- Look at the bigger picture – first step in setting a basis for future measurement methods for energy efficiency



# ● Challenges of EU efficiency policy



- Strong political pressure on visible actions: results expected also in short term at EU level at national level
- Energy saving is, by nature, result of many small measures
- Local situation in EU-27 varies
- Decision making chain from Brussels to final consumer is very long
- Verification of policy impacts is complex although EU policies and measures have great added value



# Importance of measurement and verification and the challenge ahead

- Support, justification and verification of policies
- Comparison at EU level
- Well integrated measurement methodology for application beyond the Energy Services Directive
- Practical aspects:
  - Pragmatic, simple approach needed
  - Availability of data in the EU 27
  - Baselines
  - Correction factors?



Thank you for your attention

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

