Promoting greater energy efficiency and new flexible infrastructure beyond 2020

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Informal Meeting of Energy Ministers
20 April 2012, Horsens, Denmark
Future electricity systems will be more complex and dynamic.
Efficiency gains can contribute most to EU emissions reductions

European Union energy-related CO₂ emissions abatement in the 450 Scenario relative to the New Policies Scenario

- **Efficiency**: 68% in 2020, 48% in 2035
- **Renewables**: 25% in 2020, 21% in 2035
- **Biofuels**: 2% in 2020, 6% in 2035
- **Nuclear**: 1% in 2020, 11% in 2035
- **CCS**: 3% in 2020, 14% in 2035

Energy efficiency measures – driven by strong policy action across all sectors – account for 50% of the cumulative CO₂ abatement to 2035
Significant fuel savings offset the additional investment needed to decarbonise the EU energy sector.
Discussion Suggestions

- What should be the key policy drivers of low-carbon investment on a European scale?

- What are the biggest hurdles in moving to a true European energy system?

- How can we mobilise finance for national and cross-border investments?

- How do we best avoid “regrets” of locked-in infrastructure?