



Bridging the Gap: IEA's G8 Activities

United Kingdom – IEA – G8

COP12/MOP2 Side-Event

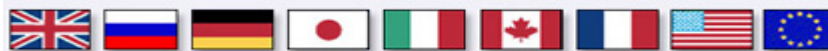
***Energy and Climate Change:
G8 Gleneagles Plan of Action***

**Mr. Claude Mandil
Executive Director
International Energy Agency**

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G8 GLENEAGLES 2005



“We will act with resolve and urgency to meet our shared multiple objectives of reducing greenhouse gas emissions, improving the global environment, enhancing energy security and cutting air pollution in conjunction with our vigorous efforts to reduce poverty.”

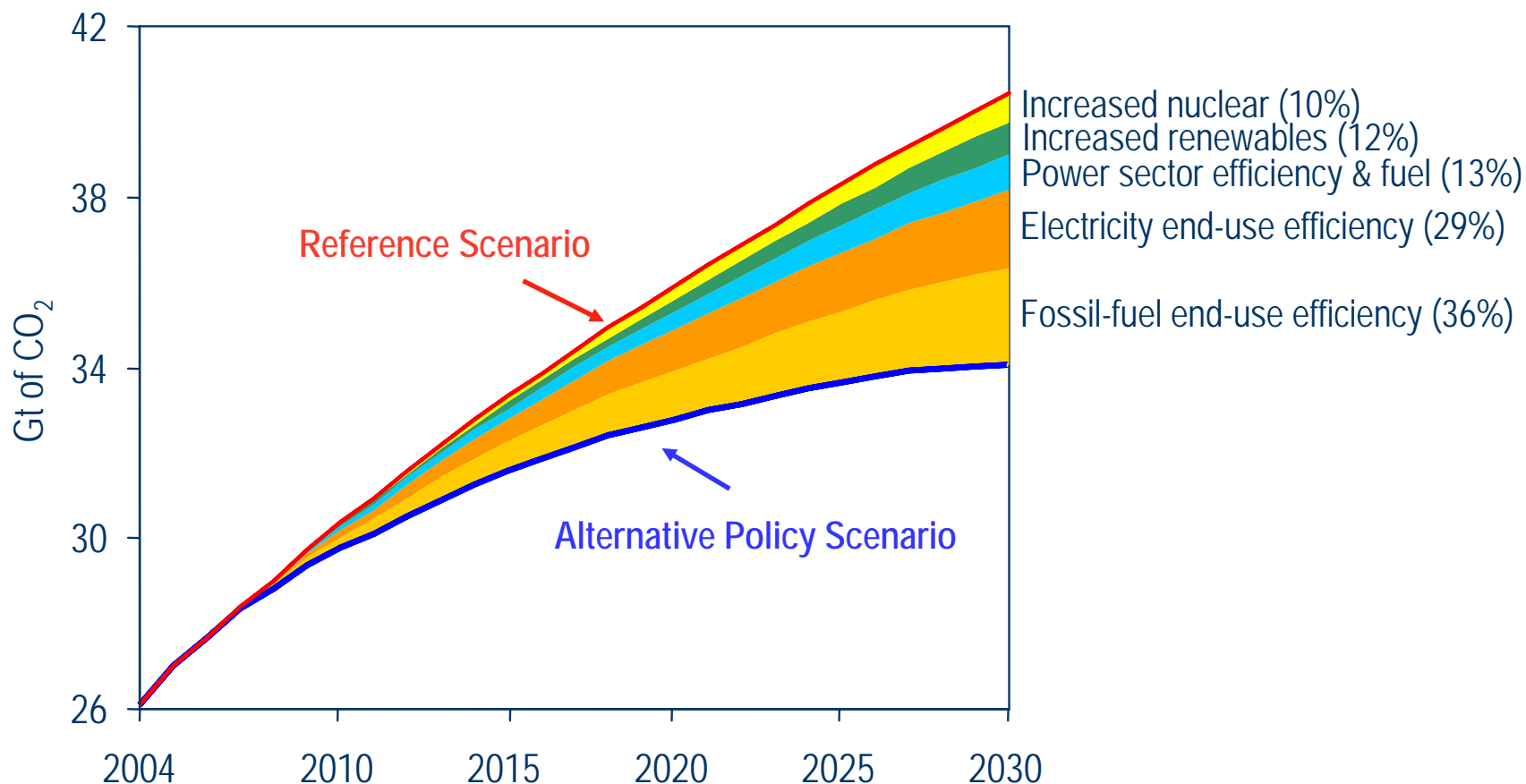
“We will move forward with timely implementation of the Gleneagles Plan of Action. We have instructed our relevant ministers to continue the Dialogue on Climate Change, Clean Energy and Sustainable Development and report its outcomes to the G8 Summit in 2008.”



IEA's G8 Gleneagles Programme

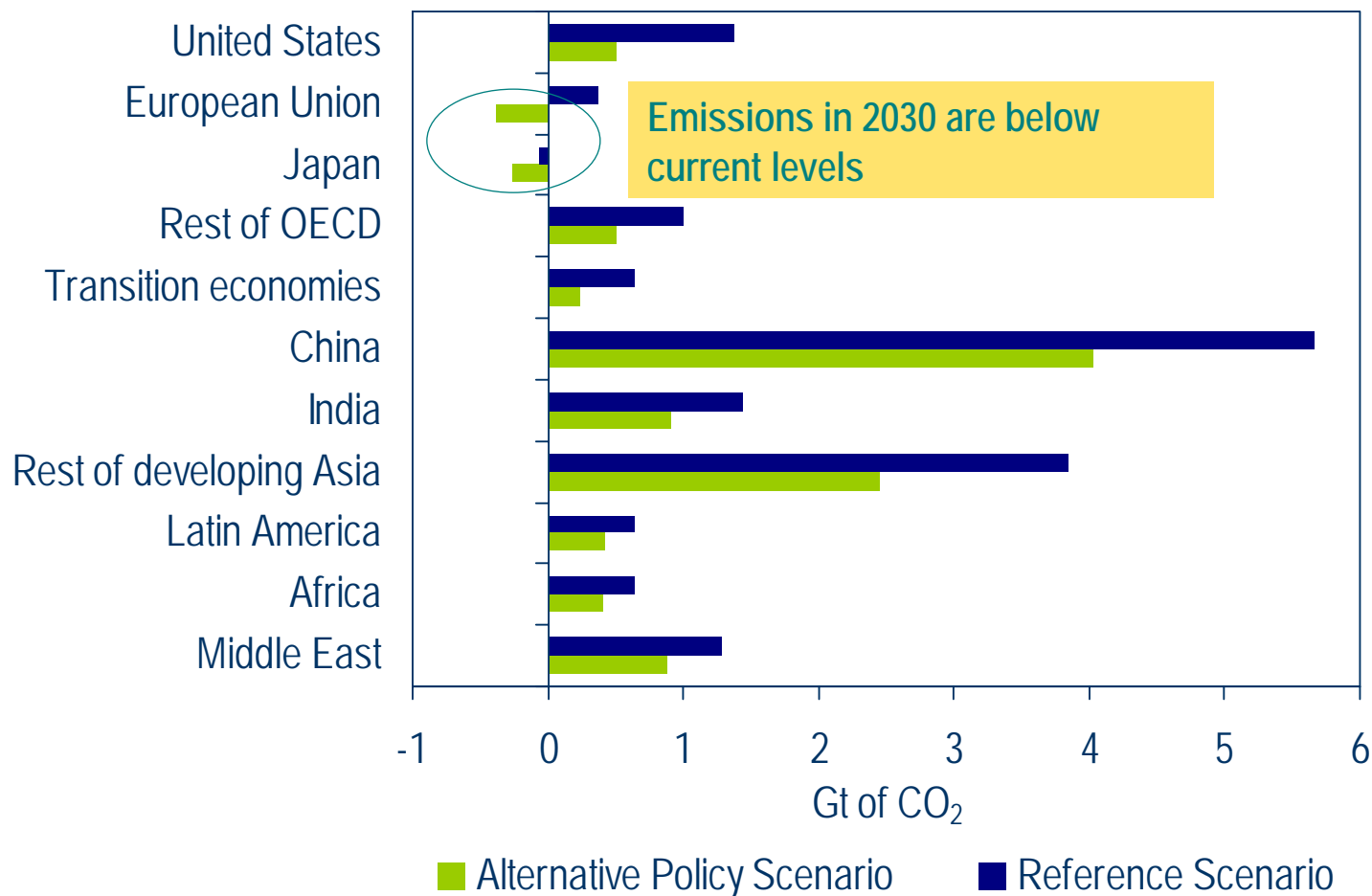
- Alternative energy scenarios and strategies.
- “Best practice” in policies promoting energy efficiency in buildings, appliances, transport and industry.
- Cleaner fossil fuels.
- CO₂ capture and storage.
- Renewable energy.
- Enhanced international co-operation.

Alternative Policy Scenario: Key Policies for CO₂ Reduction



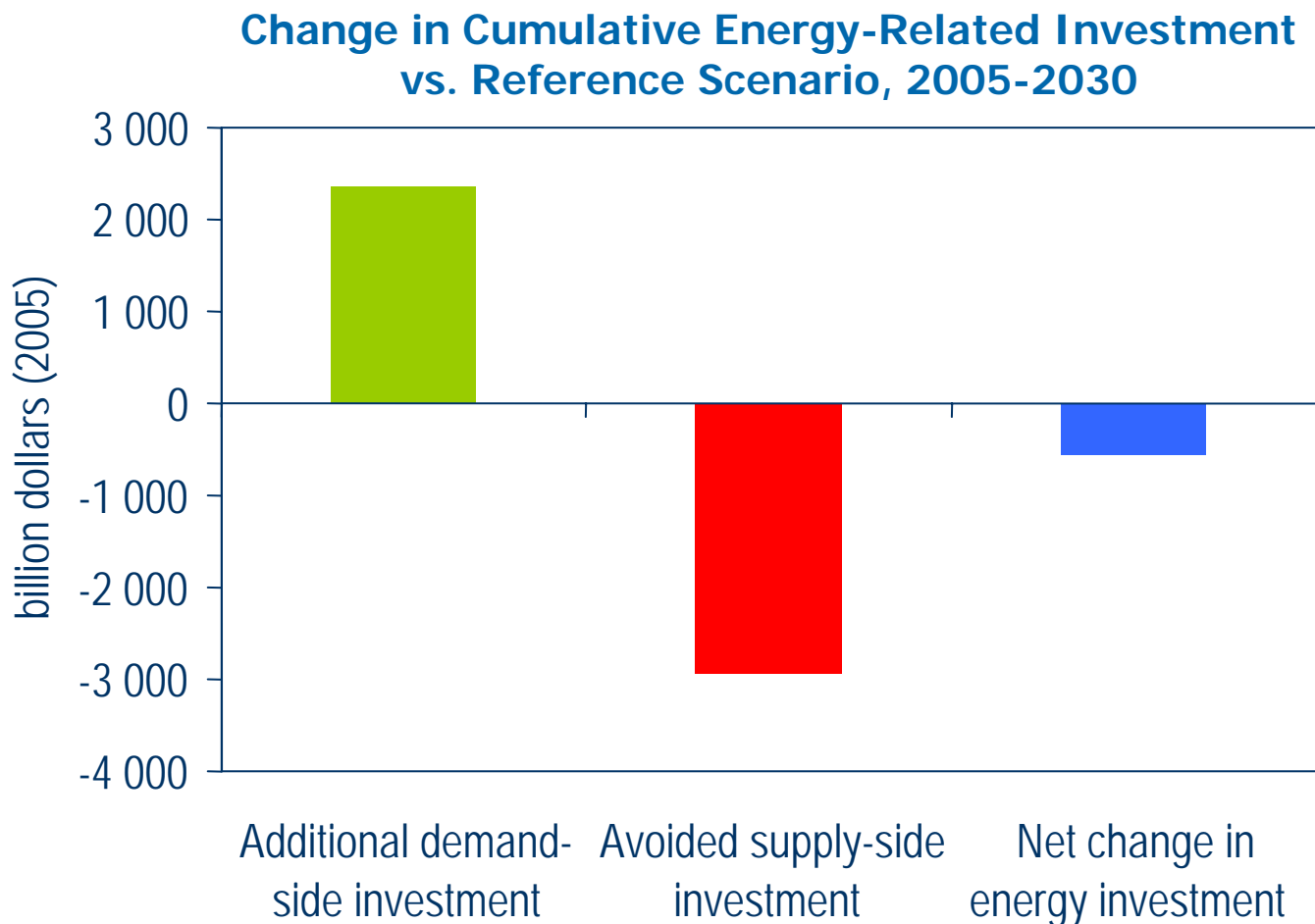
Improved end-use efficiency accounts for over two-thirds of avoided emissions in 2030 in the APS

Alternative Policy Scenario: Change in Energy-Related CO₂ Emissions, 2004-2030



OECD emissions also peak & then decline before 2030, falling below 2004 levels in Europe and Japan

Alternative Policy Scenario: Energy Investment



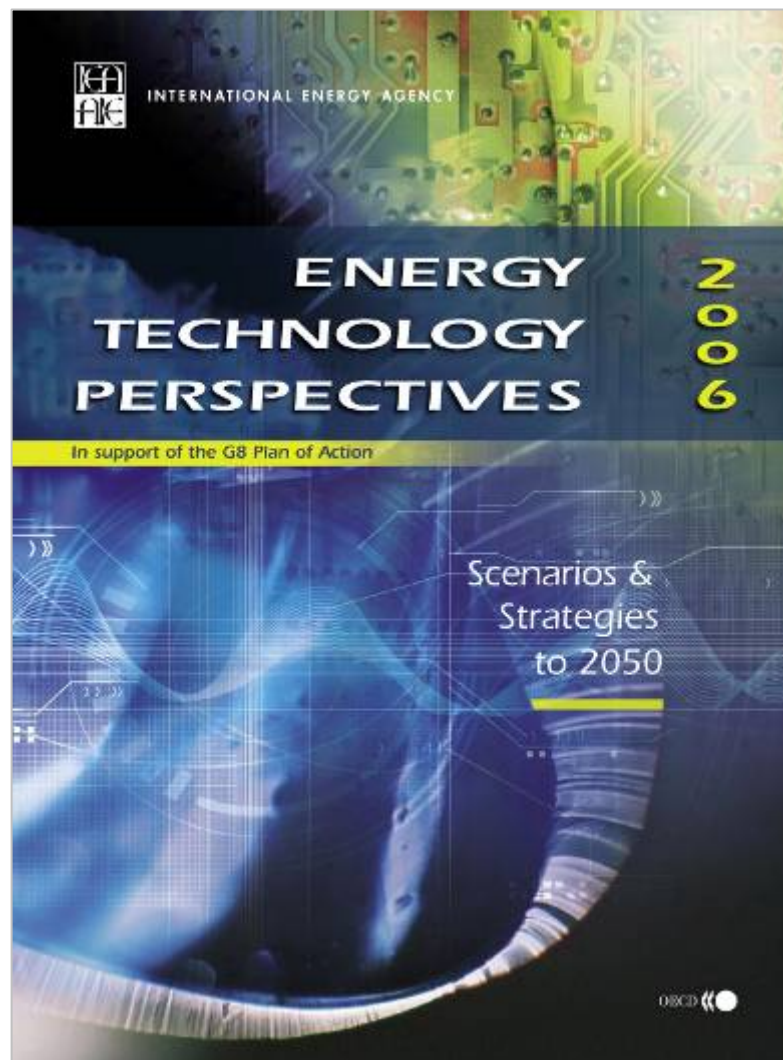
Avoided supply-side investment more than outweighs the additional investment by consumers in more expensive end-use capital stock



Energy Technology Perspectives Scenarios & Strategies to 2050

- We can depart from our current unsustainable energy path.
- A portfolio of current and emerging technologies can enhance energy security and avert the trend of increasing CO₂ emissions.
- A lot can be done even if certain key technologies would not deliver – but a CO₂ reduction incentive is necessary.

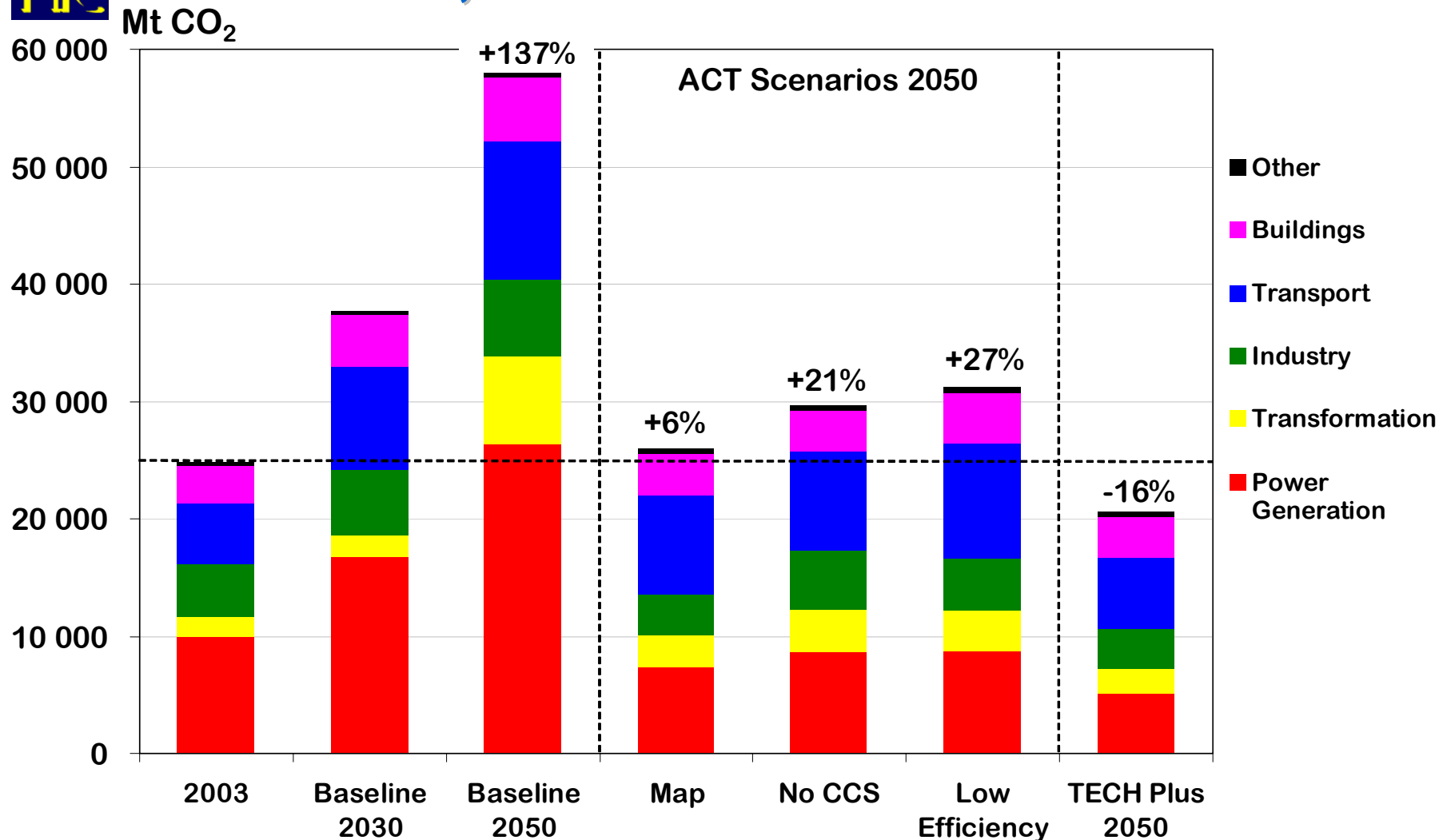
**Sustainable energy future
is achievable!**





Global CO₂ Emissions 2003-2050

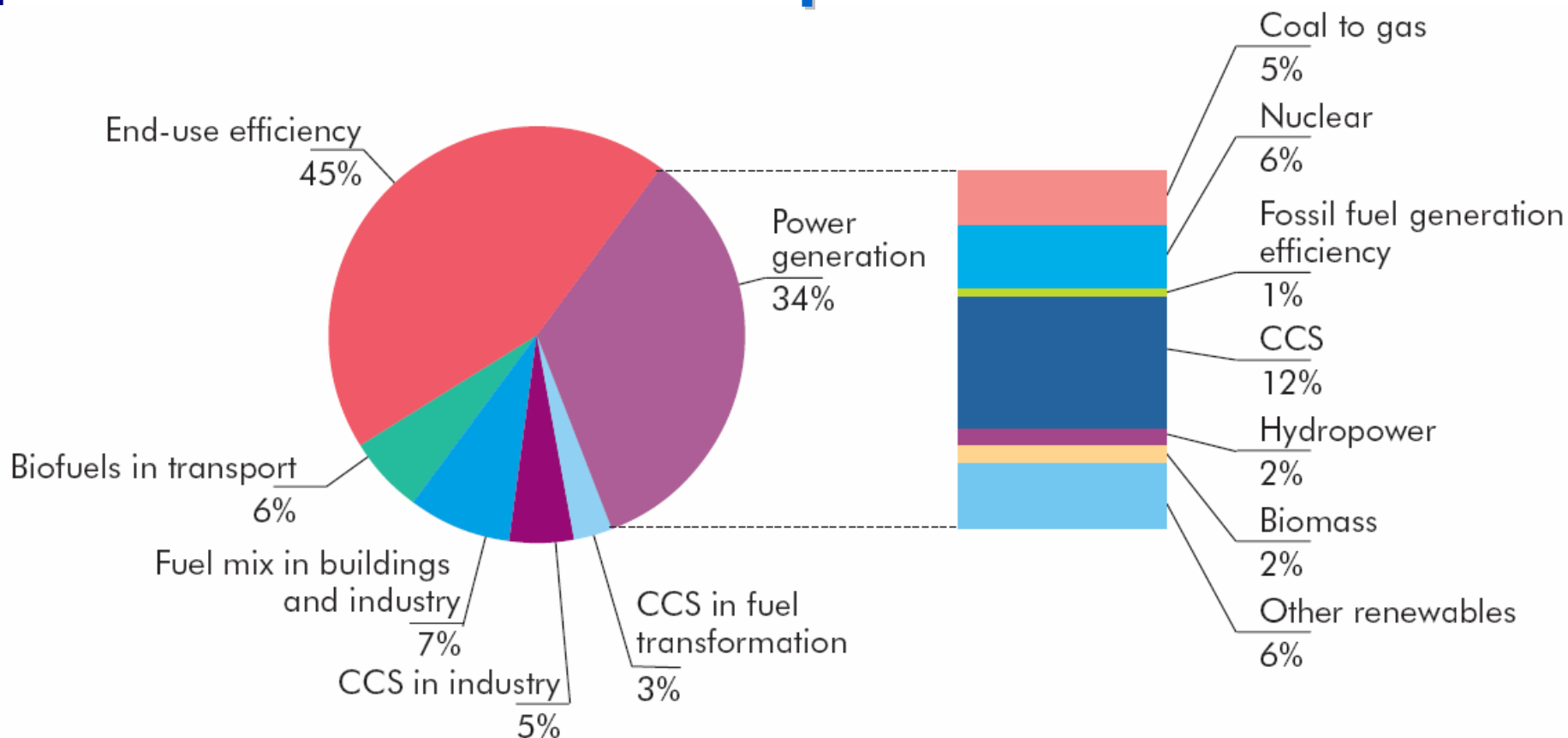
Baseline, ACT and TECH Plus Scenarios





Emission Reduction by Technology Area

ACT Map Scenario



***Improved end-use energy efficiency
is the most important contributor to reduced emissions!***



Energy Efficiency

G8 Activities 2006 - 2008

- **Best practices in 4 end-use sectors: appliances, buildings, industry and surface transport.**
- **To address specific market failures and barriers.**
- **Concrete recommendations to be presented to G8 and Plus Five leaders in Germany (2007) and Japan (2008).**



Key Messages

- A more sustainable energy future is possible with known technology.
- The costs are not out of reach and co-ordination helps to reduce them.
- But public & private sectors must act urgently:
 - ◆ Adopt concrete measures to foster the near and long-term uptake of energy efficient technologies.
 - ◆ Enhance R&D, accelerate demonstration and deployment.
 - ◆ Provide clear and predictable incentives.
- Collaboration between developed and developing countries is essential.