



Energy Efficiency in Buildings: Meeting the G8 Gleneagles Challenge

Background and expected results

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(CERT)**

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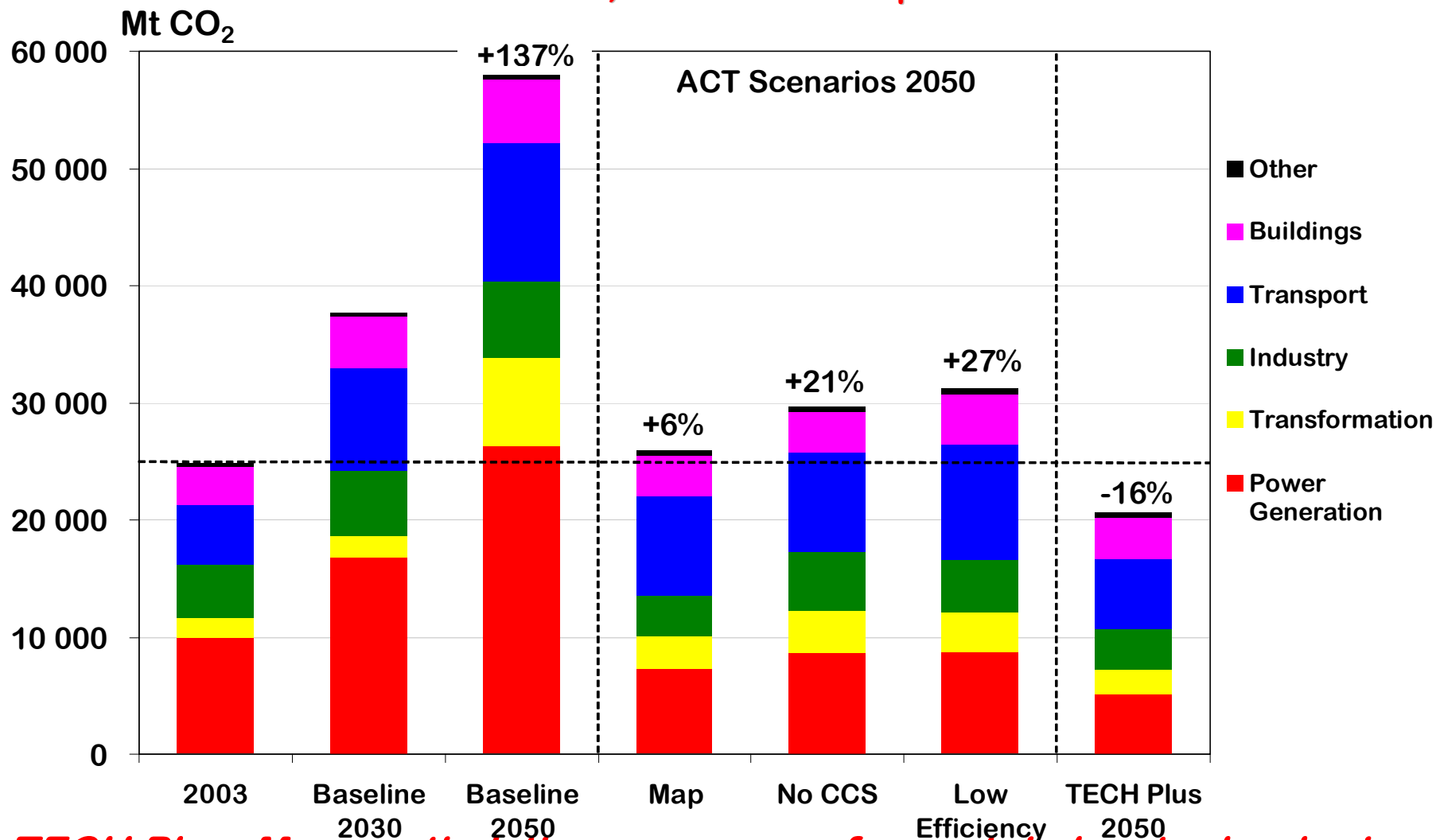


Background

- ❖ The IEA Governing Board has requested the IEA technology and policy committees to work together to enhance the synergies between energy policy and energy technology policy. **Energy efficiency in buildings** has been chosen as a relevant and promising sector to reduce GHG emissions
- ❖ The CERT and SLT agreed to stage this joint workshop drawing on the expertise of the working parties, implementing agreements and international experts
- ❖ Furthermore, the G8 Gleneagles summit in summer 2005 invited the IEA to support the G8 in examining the following building energy-efficiency related topics as part of the response to the summit's communiqué:
 - review standards and codes in OECD and developing countries,
 - develop energy indicators to assess efficiency
 - identify policy best practices



Global CO₂ Emissions 2003-2050 Baseline, ACT and TECH plus Scenarios



TECH Plus: More optimistic on progress for certain key technologies

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- ❖ Analyze energy technology issues and recommend effective policy approaches based on Member country experiences
- ❖ Track energy technology R&DD trends
- ❖ Encourage international co-operation on the research, development, demonstration, and deployment of energy technologies, particularly through the IEA Working Parties and Implementing Agreements
- ❖ The End Use Working Party supports and gives advice to CERT on buildings, industry and transport technologies



IEA Building Related Implementing Agreements

International collaboration on building technologies through:

- ❖ Buildings and Community Systems
- ❖ Demand Side Management
- ❖ District Heating and Cooling
- ❖ Energy Conservation Through Energy Storage
- ❖ Heat Pumping Technologies
- ❖ Photovoltaic Power Systems
- ❖ SHC - Solar Heating and Cooling

- ❖ Most are represented here today, including 2 presentations.



Standing Group on Long Term Cooperation (SLT)

- ❖ In-depth Review of Energy Policies of IEA Member Countries
- ❖ Economic Analysis
 - World Energy Outlook
- ❖ Market Reform
 - Electricity and Gas Market Regulation
- ❖ Environment and Energy Efficiency
 - Energy Efficiency Working Party



Workshop structure

- ❖ Day 1: Potentials, technologies and barriers for energy-efficiency in buildings
 - The potential to raise energy efficiency of buildings
 - Zero and low energy buildings
 - Energy performance indicators for buildings

- ❖ Day 2: Economics, barriers and policy best practice in buildings
 - The economics of building energy-efficiency
 - Barriers to energy efficiency and the measures to overcome them
 - Policy best practice – codes, certification, fiscal/financial incentives

- ❖ Conclude with expert panel and round-table discussion



Goals

- ❖ In recognition of the importance and the potential for enhanced government action, this workshop brings together leading international policy makers and experts from the International Energy Agency's 26 member countries to discuss the main issues relating to building energy performance.
- ❖ The workshop will explore key technology and policy themes regarding energy efficiency in buildings
- ❖ The workshop will consider the scale of the opportunity that enhanced building-related efficiency has to offer, the obstacles to be overcome to realise it and the role to be taken by government.



Expected outcomes

- ❖ The findings of this workshop will be central to the formulation of government thinking with regard to building energy performance in that they will directly contribute to the following:
 - Report to the Governing Board as a result of joint activities of CERT and SLT
 - Preparations for IEA's 2007 IEA Ministerial Meeting;
 - IEA's response to its mandate under the G8's Gleneagles Plan of Action on Climate Change, Clean Energy and Sustainable Development;
 - Orientation and design of policies for energy performance in buildings within IEA member countries;
 - Future direction of IEA buildings-related Implementing Agreements and international buildings R&D efforts;
 - Potential international initiatives in this general area.



Thank you and Good luck !

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