

Technology Roadmaps:

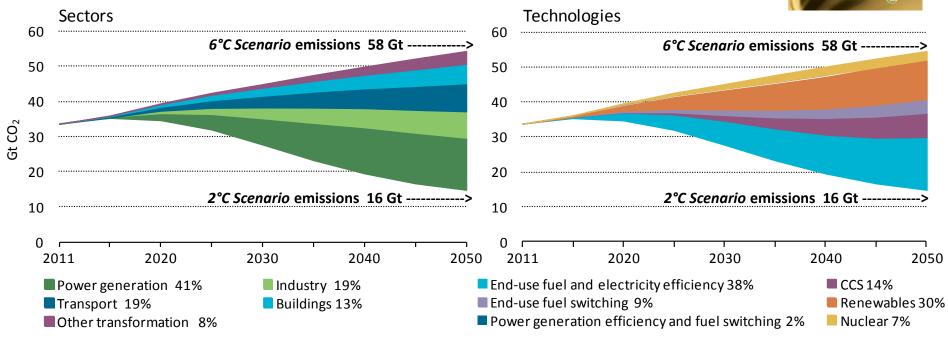
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Low-carbon energy technology roadmaps



Key technologies for reducing global CO₂ emissions





- 6°C Scenario business-as-usual; no adoption of new energy and climate policies
- 2°C Scenario energy-related CO₂-emissions halved by 2050 through CO₂-price and strong policies





Overview of IEA roadmap process

- Engage cross-section of stakeholders
- Identify a baseline:
 - ➤ Where is technology today?
- Establish a vision:
 - ➤ What is the deployment path needed to achieve 2050 goals?
- Identify technical, regulatory, policy, financial, public acceptance barriers
 - What are the near term action items?
- Develop implementation action items for stakeholders





Energy Technology Roadmaps

Roadmap logic

- Goal to achieve
- Milestones to be met
- Gaps to be filled
- Actions to overcome gaps and barriers
- What and when things need to be achieved







Technology roadmaps status





Hydrogen Roadmap Status

- July 2013 Roadmap Kickoff and European workshop
 - Scope, Technology Status and Development Needs
 - Hydrogen in Europe
- Transport model assumptions circulated for comment
- January 2014 North America Workshop in US
- June 2014 Asia Workshop in Japan
- Carry out missing analysis and refine roadmap
- Circulate final draft for stakeholder review (Q4 2014)



