Energy Technology Perspectives: Enabling a Sustainable Energy Transition

COP22 Low Emissions Solutions Conference: Session 3.3: Industry climate action and CCUS

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The carbon intensity of the global economy can be cut by two-thirds through a diversified energy technology mix.
But the challenge increases to get from 2 degrees to “well below” 2 degrees

Energy- and process-related CO₂ emissions by sector in the 2DS

- Agriculture 2%
- Buildings 8%
- Industry 33%
- Transport 24%
- Other transformation 4%
- Power 29%

Industry and transport account for 75% of the remaining emissions in the 2DS in 2050.
The critical role of industrial sector CCS

Sources of CO₂ emissions captured in the 2DS

The deployment of CCS from all sources must be accelerated to stay on track for the 2DS

28% of cumulative CO₂ captured
Technology Roadmapping: Bringing stakeholders together

- 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

32 global publications, 21 different technology areas

Re-endorsed at G7 Energy Ministerial Meeting in May 2016 (Kitakyushu)

New Cycle for Implementation:
- Near-term actions
- Regional Relevance
- Key partnerships (e.g. Finance)
- Metrics and Tracking

Low-Carbon Technology Roadmaps
The IEA works around the world to support an accelerated clean energy transition that is enabled by real-world solutions supported by analysis and built on data.