

Achieving the Ambitions of the Paris Agreement: Is there a role for CCUS?

ADB side event on CCS, COP 23

Bonn, 8 November 2017

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Global energy-related CO₂ emissions

IEA analysis shows that global CO₂ emissions remained flat in 2016 for the third year in a row, but a significant effort required to achieve a 2°C target

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The potential of clean energy technology remains underutilised



Solar PV and onshore wind Energy storage On track			
Electric vehicles			
Other renewa	ble power		
Nuclear		 Accelerated improvement needed 	
Transport – Fuel economy of light-duty vehicles			
Energy-intensive industrial processes			
Lighting, appliances and building equipment			
More efficient coal-fired power			
Carbon capture and storage			
Building construction		 Not on track 	
Transport biofuels			

Recent progress in some clean energy areas is promising, but many technologies still need a strong push to achieve their full potential and deliver a sustainable energy future.



Pushing energy technology to achieve carbon neutrality by 2060 could meet the mid-point of the range of ambitions expressed in Paris.

A significant scale-up of CCS efforts will be required globally





CCS needs to be ramped up hundreds of times to achieve long-term goals The role for CCS varies based on local circumstances





- ~USD 10 billion investment in CCS projects to date
- 2016: low-carbon investment USD 850 bn
- 2016: CCS investment USD 1.2 bn



- Since 2010, the number of large-scale projects has halved from 77 to 37
- There are FEWER projects under development than under construction and in operation
- Only one project has taken final investment decision since 2014 (Yanchang Petroleum in PRC)

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- 1) Harvest low-hanging fruit to build CCS deployment and experience from the ground up.
- 2) **Tailor policies** to shepherd CCS through the early deployment phase and to address unique integration challenges for these facilities.
- **3) Target multiple pathways to reduce costs** from technology innovation to progressive financial mechanisms.
- Build CO₂ networks to better support transport and storage options.
- 5) Strengthen partnerships and cooperation between industry and government.

Building coalitions and momentum: IEA CCUS Summit 7/11/2017







The IEA works around the world to support an accelerated clean energy transitions that are

enabled by real-world SOLUTIONS supported by ANALYSIS and built on DATA



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Explore the data behind ETP





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2016

Key world energy statistics

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