CSLF Policy meeting
IEA Update

07 October 2016

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Carbon capture and storage

International Energy Agency
Secure Sustainable Together

World Energy Investment 2016

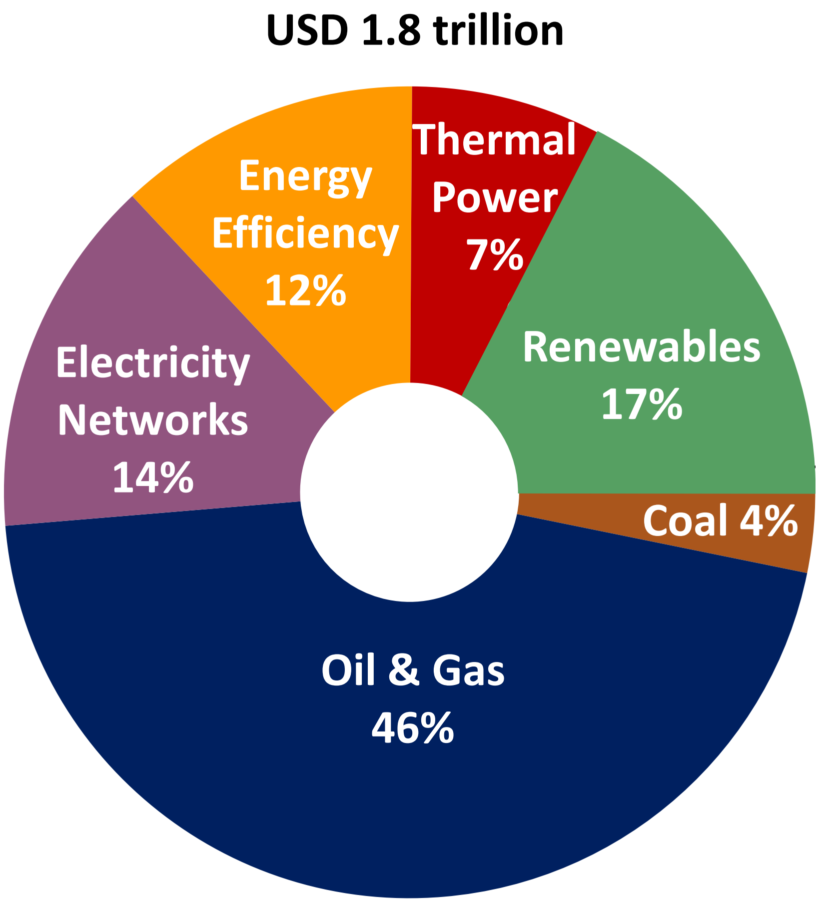
Launched

14 September 2016

Investment flows signal a reorientation of the global energy system

World Energy Investment 2016

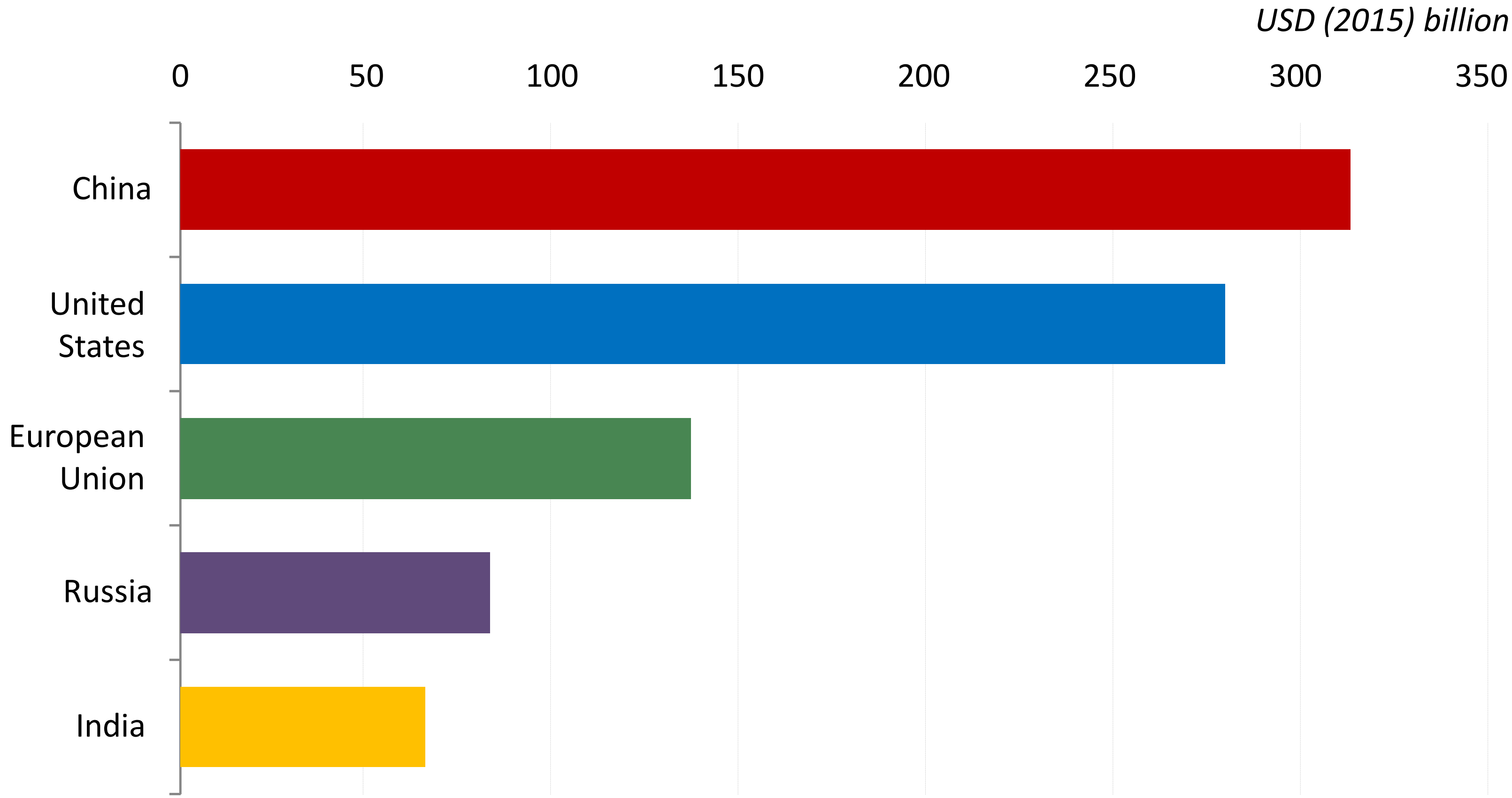
Global Energy Investment, 2015



An 8% reduction in 2015 global energy investment results from a $200 billion decline in fossil fuels, while the share of renewables, networks and efficiency expands

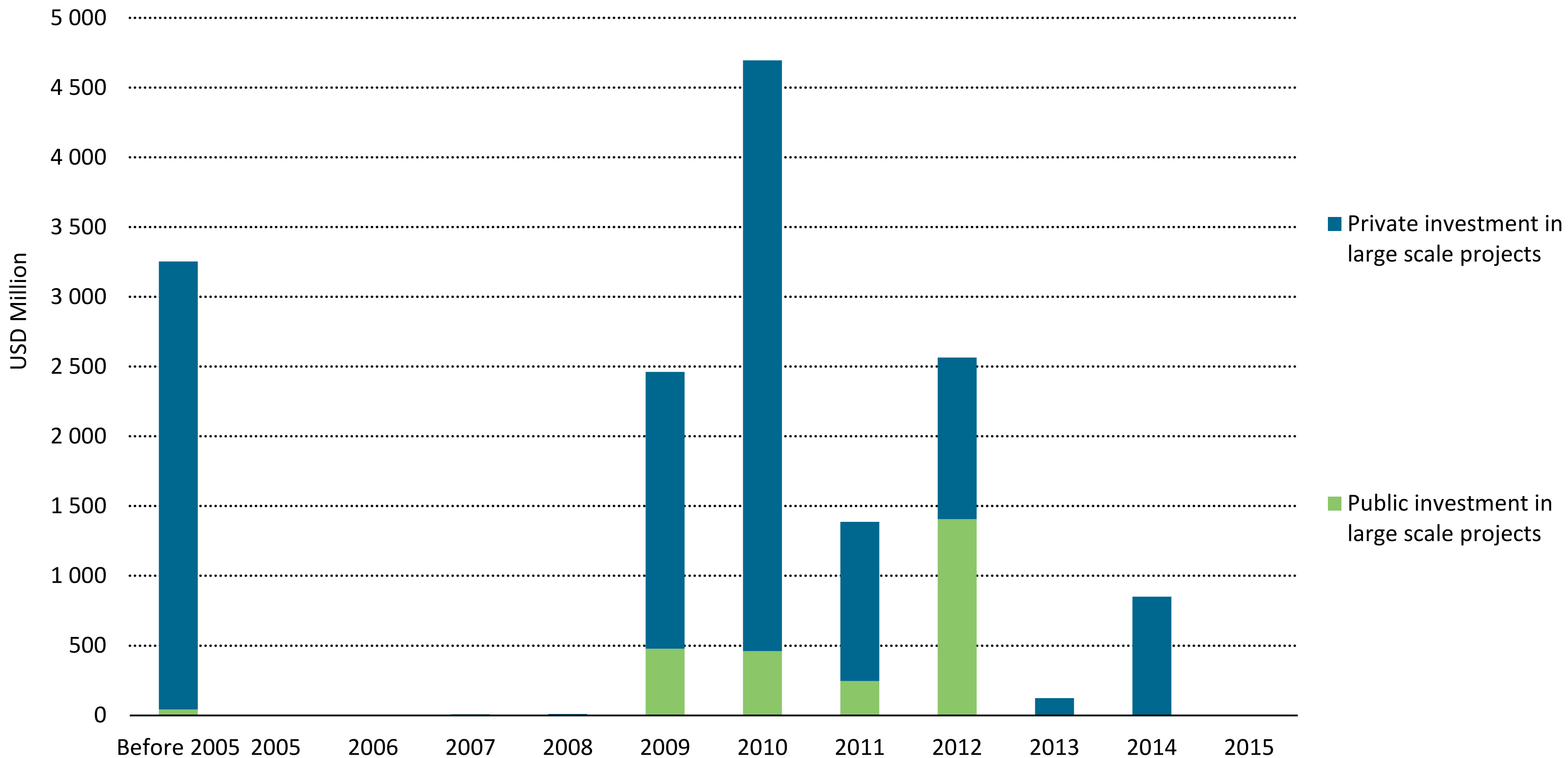
Top five markets comprised over half of global energy supply investment

Energy supply investment in 2015, selected markets



Boosted by record power sector spending, China regains top position for investment, while the US declines due to sharply lower oil and gas investment

Public and private investment in large scale CCS projects



*Investment recorded at point of final investment decision

Data: Bloomberg New Energy Finance

International Energy Agency

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New IEA publication

20 Years of CCS: Accelerating Future Deployment

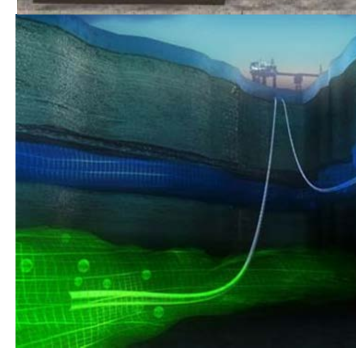
Release date 15 November 2016 at IEA GHGT-13 Conference, Lausanne

Image courtesy of Statoil

The Sleipner CCS Project

Recognising 20 years of successful operation

- The first dedicated CCS project, with permanent CO_2 storage and monitoring
- 16 million tonnes of CO_2 stored since 1996
- Norwegian CO_2 tax on offshore oil and gas emissions a key trigger for USD 100 million investment in CO_2 re-injection and storage



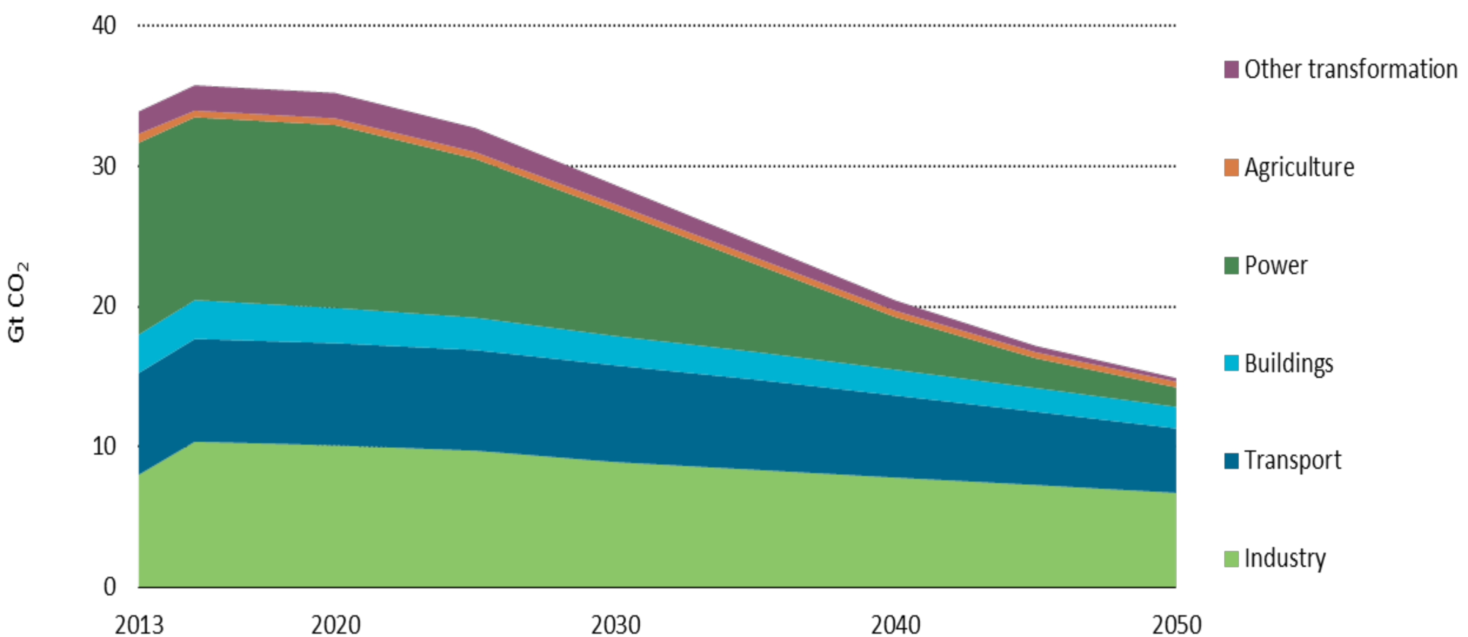
20 Years of CCS

- CCS has fallen well behind implied targets in 2DS
- Report examines a “no-CCS” variant of the 2DS and potential of CCS in moving below 2°
- Accelerated deployment is needed, starting today

20 Years of CCS – Industry is key

- Industry represents 45% of emissions in 2050 in the 2DS.
  - 75% from iron and steel; cement and chemicals
- Few alternatives to CCS for deep emissions reductions from industrial processes such as chemicals, cement and steel
- Demand for "clean products" could help break deadlock in some industries

Remaining CO_2 emissions in 2050 in the 2DS



Energy Technology Perspectives 2017

Focus on “Well below 2 degrees”

CO2 Transport and Storage

- Storage as a key enabler of CCS
- Transport and storage needs to be understood as infrastructure
- Characterise the infrastructure investment and buildout to 2050

8th IEA CCS Regulatory Network meeting

23 – 24 November, Paris

In depth sessions on:

- The impact of permitting on project economics
- Regulatory development in China

Updates from projects and countries

Email: tristan.stanley@iea.org if you are interested in attending

2013 2015 2020 2025 2030 2035 2040 2045 2050

Thank you!

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Carbon capture and storage