



Perspectives from IEAGHG CCS in NDCs and in Long-term Strategies

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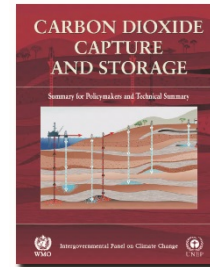
CCP Event

COP-24

CCS in UNFCCC



➤ **2005 - IPCC SR on CCS**



➤ **2005– 2011 CCS in CDM?**

➤ **2011 – CCS CDM Abu Dhabi workshop**

➤ **2011 - COP-17 CCS in CDM**



➤ **2014 - ADP TEM on CCS – project focussed**

➤ **2014 - COP-20 – CCS projects Side Event**

➤ **2015 - COP-21 – CCS projects Side Event**

➤ **2016 – COP-22 – CCS in Africa Side Event**

➤ **2017 – COP-23 – CCS, Oceans and SIDS**



UNFCCC Paris Agreement



NDCs

- **187 Nationally Determined Contributions submitted ahead of COP-21 - only 10 included CCS as a mitigation activity, although these countries covered a significant proportion of the world's emissions.**
- **Should be noted that these NDCs were short-term focussed in being 5 years duration and only to 2025 or 2030. Have to be updated every 5 years and represent advancement.**

Low GHG emission development strategies

- **Longer-term, the Paris Agreement invited Parties to communicate *'long term low GHG emission development strategies'* to the mid-century.**
- **So far, nine countries have submitted these, and eight of which contain CCS as a mitigation activity, particularly for industrial emissions (USA, Canada, Germany, Mexico, France, Czech Republic, UK, and Ukraine).**

(as of Sep 2018)

ADB Workshop



- **Meeting of Centres of Excellence on Carbon Capture Utilization and Storage**
- **Asian Development Bank, Manila, 07 June 2018**
- **Asia Clean Energy Forum 2018, Manila**

- **Centres of Excellence:**
 - **South Africa**
 - **Indonesia**
 - **China - Guangdong**
 - **China - Shanghai**
 - **Mexico**
 - **India**



Of specific relevance to NDCs

IEAGHG Technical Report
2017-07
August 2017

CCS Deployment in the Context
of Regional Developments in
Meeting Long-Term Climate
Change Objectives

IEA GREENHOUSE GAS R&D PROGRAMME

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NATIONAL CO₂
STORAGE
ASSESSMENT
GUIDANCE

Report: 2016/TR6
October 2016

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THE PROCESS OF
DEVELOPING A CO₂
TEST INJECTION:
EXPERIENCE TO
DATE AND BEST
PRACTICE

Report: 2013/13
October 2013

INTERNATIONAL ENERGY AGENCY

CO₂ CAPTURE READY
PLANTS

Technical Study
Report Number: 2007/4
Date: May 2007

In support of the G8 Plan of Action

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Learn more about CCS



- **IEAGHG International CCS Summer School.**
- **July 2019 tbc, hosted by International CCS Knowledge Centre, Regina, Canada (near Boundary Dam)**



- **The University of Edinburgh CCS MOOC**
<https://www.edx.org/course/climate-change-carbon-capture-and-storage-0>

Climate Change, Energy and Carbon Capture and Storage

Join us at Edinburgh University and thousands of learners to find out more with a FREE, online course.

- Introductory level
- Learn at your own pace
- Starts 10th December
- Runs for 6 weeks with a break over Christmas

Learn how CCS can protect the atmosphere from excess CO₂

- By stopping emissions from entering the atmosphere
- By removing the excess accumulated in the atmosphere



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Thank you

Any Questions?