



# CO<sub>2</sub> Capture and Storage – CCS

The leading organiser



with co-organisers



welcome you to our booth!



## CO2GeoNet

The Network of Excellence on the geological storage of CO<sub>2</sub>

A non-for-profit Scientific Association

- 26 members (research institutes)
- 19 European countries
- a network of >300 researchers

an independent and multidisciplinary scientific body for building trust on  
CO<sub>2</sub> geological storage and supporting wide-scale CCS implementation

## CO2GeoNet

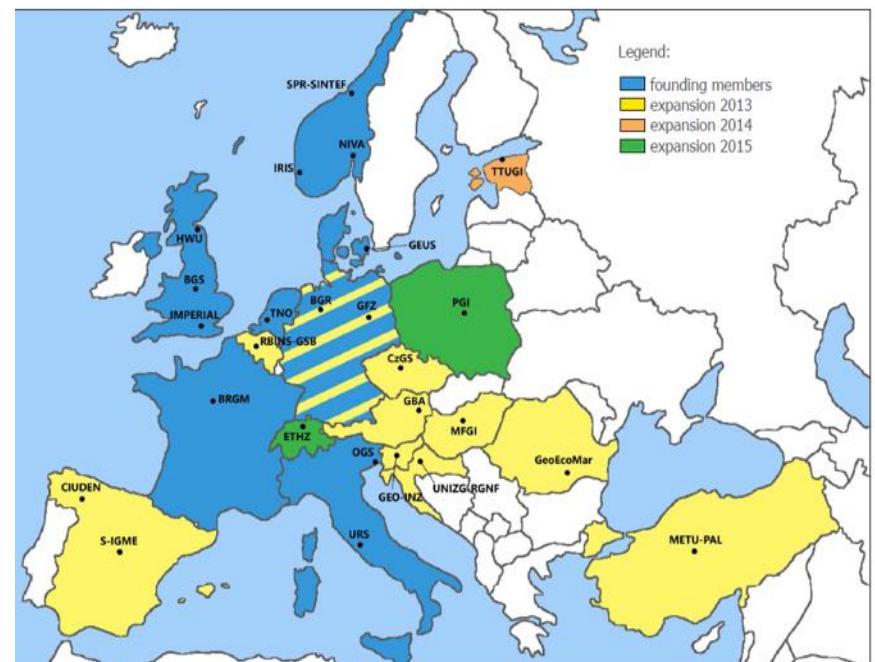
Le Réseau d'Excellence sur le  
stockage géologique de CO<sub>2</sub>

Une Association scientifique à but  
non lucratif

- 26 membres (instituts de recherche)
- 19 pays européen
- un réseau avec >300 chercheurs



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- recherche
- conseil scientifique
- formation
- information & communication

- research
- scientific advice
- training
- information & communication

CO<sub>2</sub>GeoNet Brochure  
***“What does CO<sub>2</sub> geological storage really mean ?”***  
translated in 28 languages



## International cooperation with:



**ieaghg**



United Nations  
Framework Convention on  
Climate Change



**CTCN**  
CLIMATE TECHNOLOGY CENTRE & NETWORK



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## CO2GeoNet 12<sup>th</sup> Open Forum

Venice, Italy

May 5 – 12, 2017

*SAVE THE DATE!*

*Hear the latest scientific developments, meet with international stakeholders*

Contact us at:

[info@co2geonet.com](mailto:info@co2geonet.com)

[www.co2geonet.eu](http://www.co2geonet.eu)



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# IEA Greenhouse Gas R&D Programme (IEAGHG)

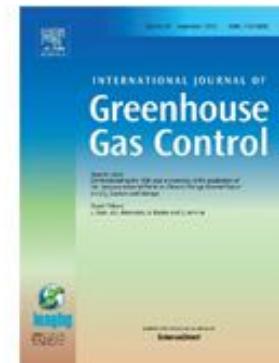
- An International Energy Agency 'Technology Cooperation Programme'
- A collaborative research programme founded in 1991
- Aim: *Provide definitive information on the role that technology can play in reducing greenhouse gas emissions.*
- 32 members from 15 countries
- Focus has been on Carbon Dioxide Capture and Storage (CCS)
- Producing information that is:
  - Objective, trustworthy, independent
  - Policy relevant but NOT policy prescriptive
  - Reviewed by external Expert Reviewers

[www.ieaghg.org](http://www.ieaghg.org)

[mail@ieaghg.org](mailto:mail@ieaghg.org)



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## Flagship activities:

- Technical Studies >300 reports published on all aspects of CCS
- International Research Networks:
  - Risk Assessment/Management
  - Monitoring
  - Modelling
  - Environmental Research
  - Social Research
  - Oxy-combustion
  - Post-combustion Capture
  - Solid Looping
- GHGT conferences – GHGT-13, Lausanne, Switzerland, 13-18 Nov 2016
- Input to – IEA, UNFCCC, IPCC, CSLF, London Convention, ISO

# IEAGHG International CCS Summer Schools



- 2007 - Germany, FzJ, Kloster Seeon
- 2008 - Canada, University Regina, Vancouver Island
- 2009 - Australia, CO2CRC, Lorne
- 2010 - Norway, NTNU-SINTEF, Svalbard
- 2011 - USA, ISGS, Champaign
- 2012 - China, Tsinghua University, Beijing
- 2013 - UK, Nottingham University
- 2014 - USA, University of Texas, Austin
- 2015 - Australia, CSIRO, UWA, CO2CRC, Perth
- 2016 - Canada, SaskPower/BHP Billiton/UR, Regina



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# The Gulf Coast Carbon Center

at The University of Texas at Austin

*Injecting over a decade of experience into CCS technology*

[www.gulfcoastcarbon.org](http://www.gulfcoastcarbon.org)



BUREAU OF  
ECONOMIC  
GEOLOGY



**TEXAS** Geosciences  
The University of Texas at Austin  
Jackson School of Geosciences

**GCCC**  
GULF COAST CARBON CENTER

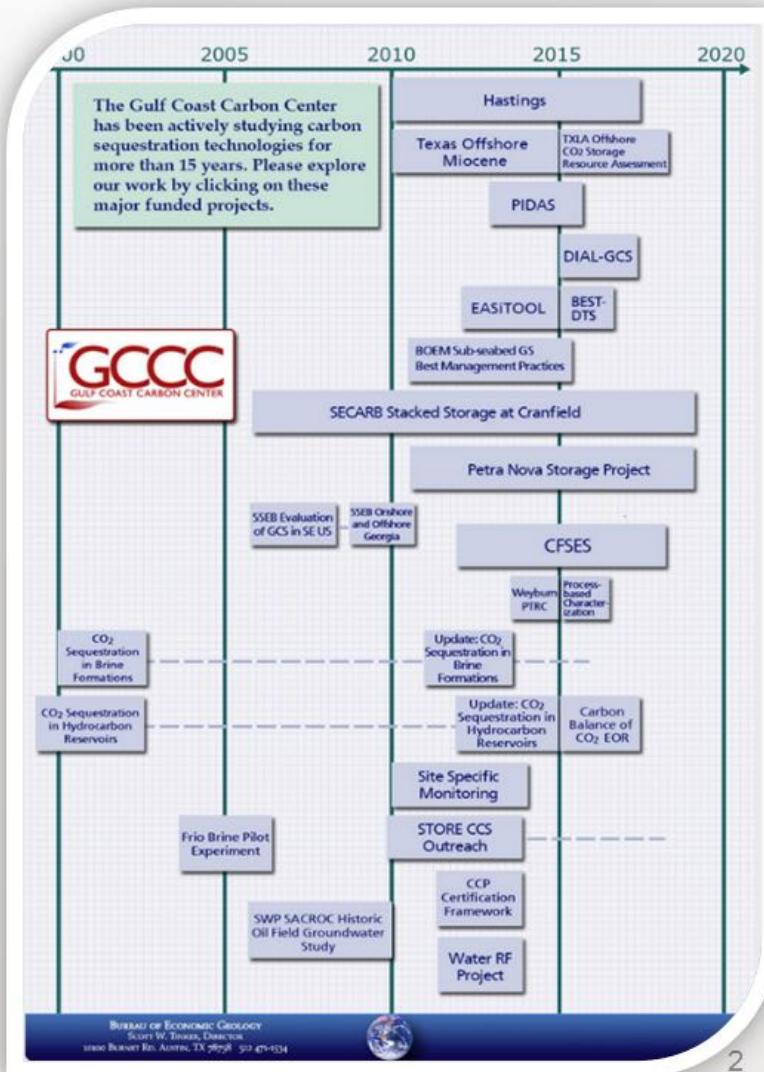


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# GCCC Experience: From Pilot to Industrial- Scale Projects

<http://www.beg.utexas.edu/gccc/>

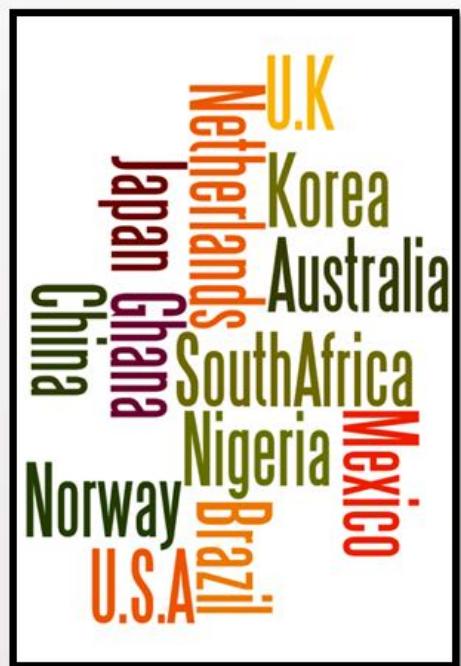
- ✓ Pilot injections
- ✓ Feasibility Studies
- ✓ Capacity Estimation  
(EASiTool)
- ✓ Monitoring
- ✓ Environmental Assessment
- ✓ Public Outreach
- ✓ Training and Capacity Building
- ✓ Policy and Regulation



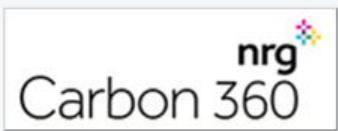
# April 2016- International Workshop on Offshore Geologic CO<sub>2</sub> Storage



Workshop goals: to undertake a global needs assessment for offshore geological CO<sub>2</sub> storage, to initiate a discussion about the various aspects of offshore transport and storage, and to build an international community of parties interested in offshore storage.



Gulf Coast Carbon Center Sponsors



Gulf Coast Carbon Center Co-operative Members



Current Major Field Monitoring Program:

**West Ranch 2012-2019**

*Commercial-scale post-combustion capture of CO<sub>2</sub> from coal-fired electricity generation to enhance production at mature oil field in Texas' Gulf Coast region*

**Impact:**

- Deploy commercial technologies for confirming storage permanence in EOR context

- Formed in 2006

**A business association formed in the UK to represent the interests of its members in promoting the business of CCS, assisting policy developments in UK, EU and internationally and raising awareness of CCS as a cost-effective means of reducing CO2 emissions**

- Membership across the range of CCS (power generators, oil & gas, air separation, engineering, industrial, consultancy, regional agencies, academic)
- Working with UK Government, EU Commission, International bodies (UNFCCC, ISO...)



# CCSA works to influence a number of areas:

Policy	Technical	Communications / Public Affairs
<ul style="list-style-type: none"><li>• Importance of CCS in the power sector</li><li>• Industrial CCS (steel, cement, chemicals, refining)</li><li>• CCS and hydrogen (decarbonising heat)</li><li>• How to develop CCS infrastructure</li><li>• Incentives for CCS</li></ul>	<ul style="list-style-type: none"><li>• Industry recommendations on CCS research priorities</li><li>• Carbon capture and use</li><li>• New modelling required on importance of CCS</li></ul>	<ul style="list-style-type: none"><li>• CCSA website</li><li>• Twitter @The_CCSA</li><li>• <a href="http://goingundergroundblog.org">goingundergroundblog.org</a></li><li>• Engaging with Ministers, MPs, MEPs, external stakeholders</li><li>• Steady stream of CCS info to press and media</li></ul>

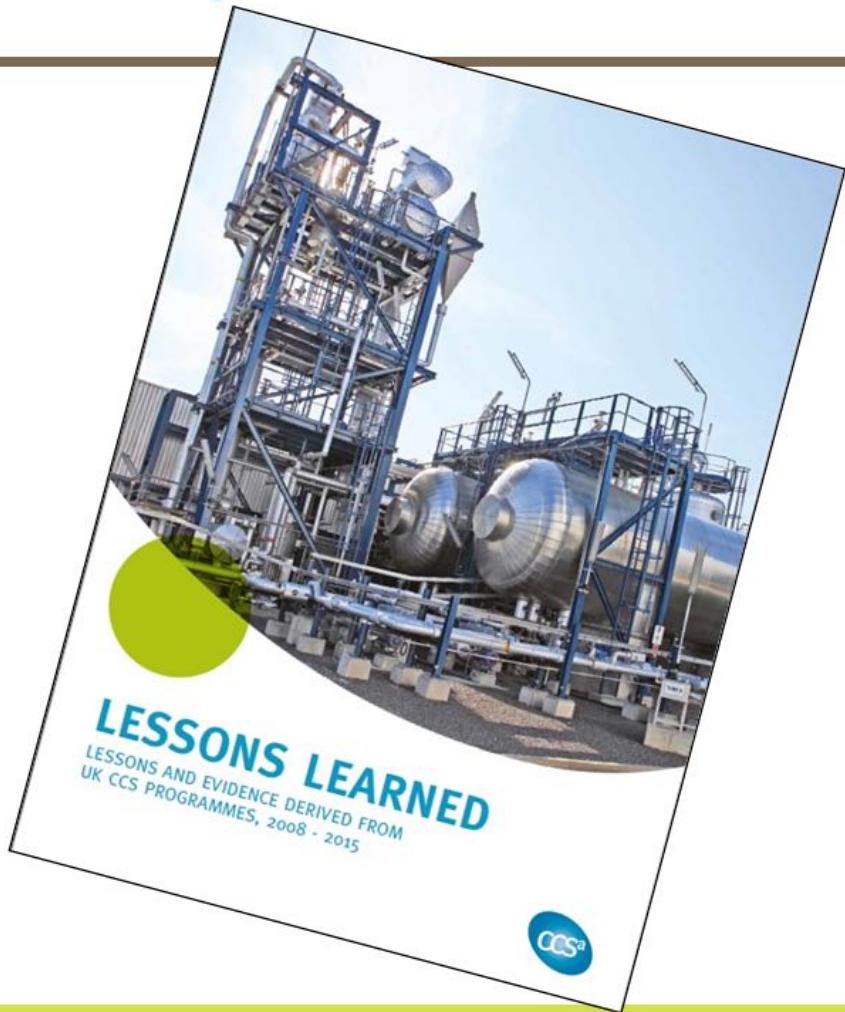


Carbon Capture &  
Storage Association

## Latest report:

- 36 key lessons for industry and policy makers from UK CCS Programmes
- High-level themes:
  - Barriers to CCS are commercial, not technical
  - CCS is cost-competitive with other low-carbon technologies
  - Massive economic opportunity from investing in transport & storage infrastructure

<http://www.ccsassociation.org/press-centre/reports-and-publications/lessons-learned/>



[www.ccsassociation.org](http://www.ccsassociation.org)

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THE UNIVERSITY OF  
**TEXAS**  
AT AUSTIN



Carbon Capture &  
Storage Association

# Talk to us!

**Questions?**



**Want to know how  
it works?**



**Just curious...**



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