



# Update from IEAGHG

**Tim Dixon**

General Manager IEAGHG

CSLF Technical Group Meeting, Bergen, hosted by Research Council of Norway

27 June 2022



## Who are we?

Our internationally recognised name is the IEA Greenhouse Gas R&D Programme (IEAGHG). We are a Technology Collaboration Programme (TCP) and are a part of the International Energy Agency's (IEA's) Energy Technology Network.

## Disclaimer

The IEA Greenhouse Gas R&D Programme (IEAGHG) is organised under the auspices of the International Energy Agency (IEA) but is functionally and legally autonomous. Views, findings and publications of the IEA Greenhouse Gas R&D Programme do not necessarily represent the views or policies of the IEA Secretariat or its individual member countries.

# IEA Greenhouse Gas R&D Programme (IEAGHG)



- A collaborative international research programme founded in 1991
- Aim: To provide information on the role that technology can play in reducing greenhouse gas emissions from use of fossil fuels and biomass in power and industrial systems.
- Focus is 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



ieaghg



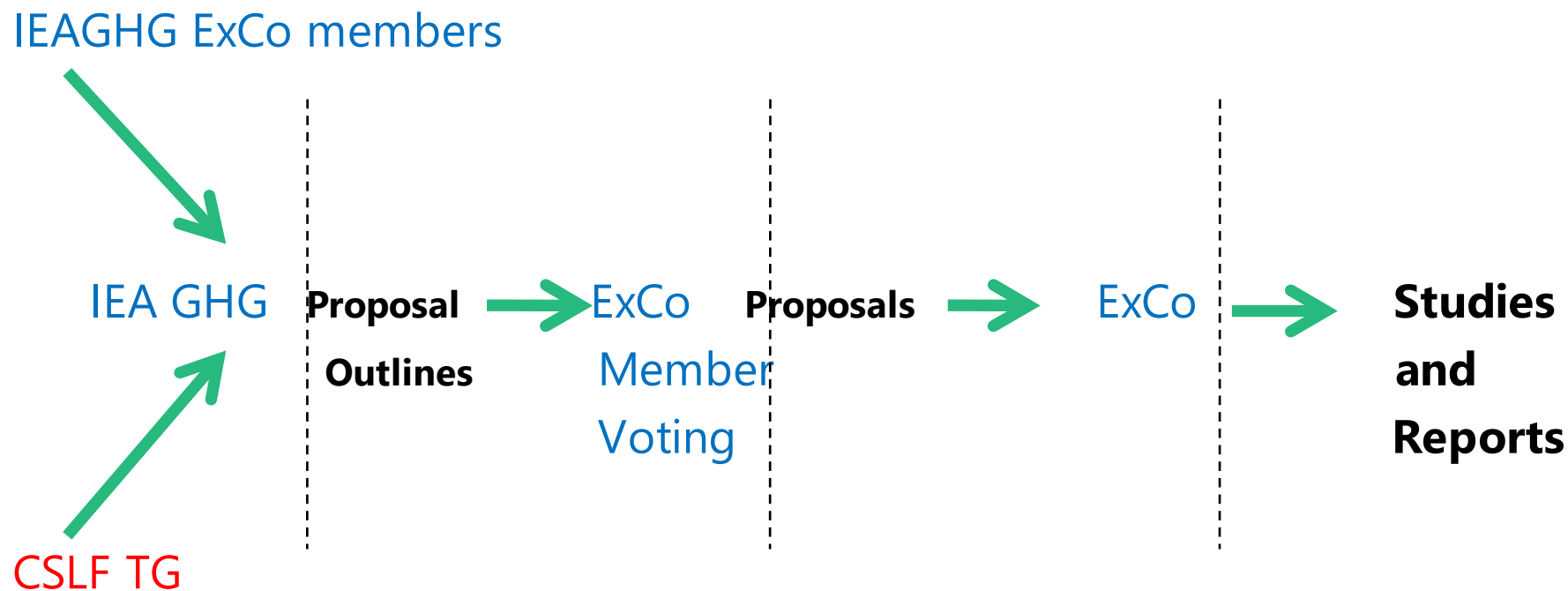
# Arrangement between CSLF Technical Group and IEAGHG



- How CSLF TG/PIRT and IEAGHG will interact for mutual benefit through increased co-operation
- Agreed by IEAGHG ExCo Oct 2007 and CSLF Technical Group Jan 2008



# IEAGHG – Study generation





## CSLF proposed/related studies

Recent reports:

- Hydrogen Production with CCS workshop. 6<sup>th</sup> November 2020, Paris. IEAGHG 2020/TR01
- 4<sup>th</sup> International Workshop on Offshore CCS. IEAGHG Report 2020/TR02

- Additional new study ideas invited from CSLF TG**
- Outline required by 29 June 2022**



# IEAGHG Primary Activities

- Funding research into development and deployment of CCUS technologies
- Technical Reports >356 reports published on all aspects of CCUS
- International Expert Networks Risk Management; Monitoring; Modelling; Environmental Research; High Temperature Solid Looping; Costs; Social Research
- Conferences
  - GHGT conferences (the largest global conference on CCS)
    - GHGT16 – 23-27 Oct 2022, Lyon France.
  - PCCC conferences - PCCC6, UKCCSRC, virtual, 19-21 Oct 2021
  - Negative CO<sub>2</sub> Emissions conference – 14-17 June 2022 Gothenburg
  - International CCS Summer Schools







## 16<sup>TH</sup> GREENHOUSE GAS CONTROL TECHNOLOGIES CONFERENCE

**23 - 27 OCTOBER 2022**



Hosted by  Club CO<sub>2</sub>

With



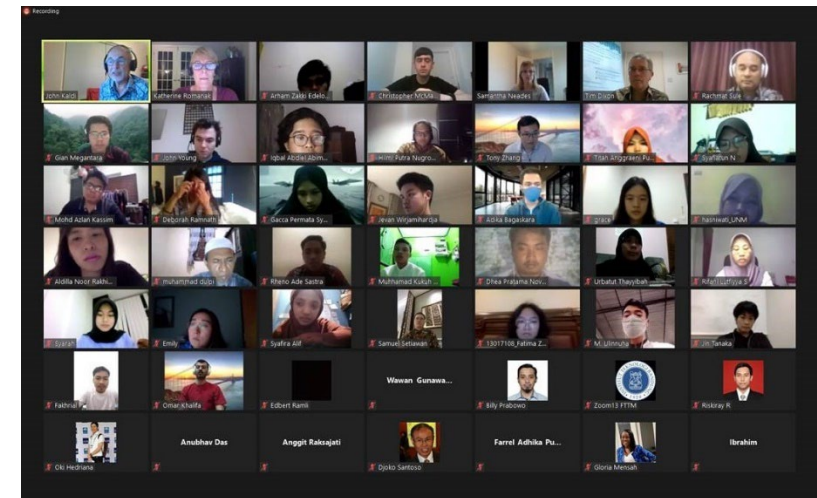
- The leading conference for CCUS for more than 30 years returns for an ‘in person’ attendance. Hosted by Club CO<sub>2</sub> in Lyon, France.
- Over 700 presentations in 71 sessions, 7 parallel streams, panel sessions, keynotes, plus social events
- Over 800 abstracts received.
- Refer to [www.ghgt.info](http://www.ghgt.info)



# International CCS Summer Schools



- 636 alumni, 58 countries
- 2020 in Bandung, Indonesia, hosted by ITB - **Postponed to Nov 2022**
- **CCS Virtual Course with ITB**
- **for ASEAN students – Nov 2020**
- 82 students
- **CCS Virtual Course with ITB 2021**
- **26 Jul to 6 Aug 2021**



# Recent Reports



Title	Contractor	Report number	Proposed by	Publication date
Criteria for Depleted Reservoirs to be Developed for CO2 Storage	BEG at U.Texas	2022-01	Total	17/01/22
Current State of Knowledge Regarding the Risk of Induced Seismicity at CO2 Storage Projects	BEG at U.Texas	2022-02	IEAGHG	01/02/22
Prime Solvent candidates for next generation of PCC plants	Khalifa Uni.	2022-03		28/02/22
From CO2 to Building Materials - Improving Process Efficiency	Imperial College	2022-04	UK	02/03/22
Feasibility study on achieving deep decarbonization in worldwide fertilizer production	Wood	2022-05	UK	03/03/22

# Expert Networks and other events



## 2020 / 2021

- CSLF CCS Hubs virtual Workshop – hosted by Gassnova and the Research Council of Norway with IEAGHG input – 15<sup>th</sup> October 2020. Reported in IP 2020-IP21
- Risk Management Network virtual Discussion Panel webinar was held on 2<sup>nd</sup> December 2020. Reported in Technical Review 2021-TR01.
- The Monitoring Network held a second virtual webinar on 26<sup>th</sup> January 2021 entitled 'Monitoring Expertise Showcase for Post Closure Monitoring' – report in progress.



# Webinar series (recent)



- Established June 2015, 38 webinars to date

Webinar title	Date	Presenter	No. attendees	No. YouTube views to date
The Road to CCS Project Permitting – Operators' Experiences With Risk Management During the Permitting Process	18/01/2022	IEAGHG RMN Network	138	n/a, not public
IEAGHG/IETS iCCUS Workshop: CCUS Technologies in Industrial Systems	01/03/2022	Various		134
Criteria for Depleted Reservoirs to be Developed for CO2 Storage	04/03/2022	IEAGHG & BEG at U.Texas		215
Study on Global Assessment of Direct Air Capture Cost	23/03/2022	IEAGHG, Element Energy & Imperial College		203
Current State of Knowledge Regarding the Risk of Induced Seismicity at CO2 Storage Projects	13/04/2022	IEAGHG & BEG at U.Texas		167
Feasibility Study on Achieving Deep Decarbonization in Worldwide Fertilizer Production	24/05/2022	IEAGHG, Wood & Ergo		54

# IEAGHG Information Papers (recent)



Information Paper Title	IP No.	Issue Date	Author
(CONFIDENTIAL) Summarising the DETECT Project	2021-IP27	03/12/2021	JWC
Hydrogen for net zero	2021-IP28	13/12/2021	AA
(CONFIDENTIAL) 83rd WPFE	2021-IP29	16/12/2021	TD
OGCI Gulf Countries CCUS White Paper External Stakeholder Workshop	2022-IP01	31/01/2022	JWC
IPCC Climate Change 2022 Impacts, Adaptation and Vulnerability	2022-IP02	10/03/2022	JK
IPCC approves the Summary for Policymakers for Working Group III Mitigation of Climate Change	2022-IP03	05/04/2022	AL, Chevron
(CONFIDENTIAL) IEA Renewable Energy Working Party Meeting 5th and 6th April 2022	2022-IP04	13/04/2022	JWC
IPCC WGIII Report	2022-IP05	04/05/2022	JK



# IEAGHG Information Papers (recent)



Information Paper Title	IP No.	Issue Date	Author
CSLF 2021 Technology Road Map	2021-IP16	21/09/2021	JC
Nature article on CDR	2021-IP17	11/10/2021	JK
CONFIDENTIAL 82nd meeting of the IEA Working Party on Fossil Energy, 30 September 2021	2021-IP18	12/10/2021	TD
UK Net Zero Strategy: Build Back Greener: Synopsis on hydrogen and CCUS	2021-IP19	29/10/2021	AA
Net Zero Strategy and GGRs	2021-IP20	29/10/2021	JK
IEA Global Hydrogen Review 2021	2021-IP21	02/11/2021	AA
IEA: An Energy Sector Roadmap to Carbon Neutrality in China	2021-IP22	05/11/2021	KB
The Global Methane Pledge	2021-IP23	05/11/2021	SN
Net zero electricity in G7	2021-IP24	05/11/2021	KB
Next Generation Capture Technologies	2021-IP25	22/11/2021	AA
NETL Well Integrity Workshop: Identifying Well Integrity Research Needs for Subsurface Energy Infrastructure	2021-IP26	29/11/2021	JC



Input to WPFE



United Nations  
Framework Convention on  
Climate Change

CCS Side Events at COP20, COP21,  
COP22, COP23, COP24, COP25, COP26

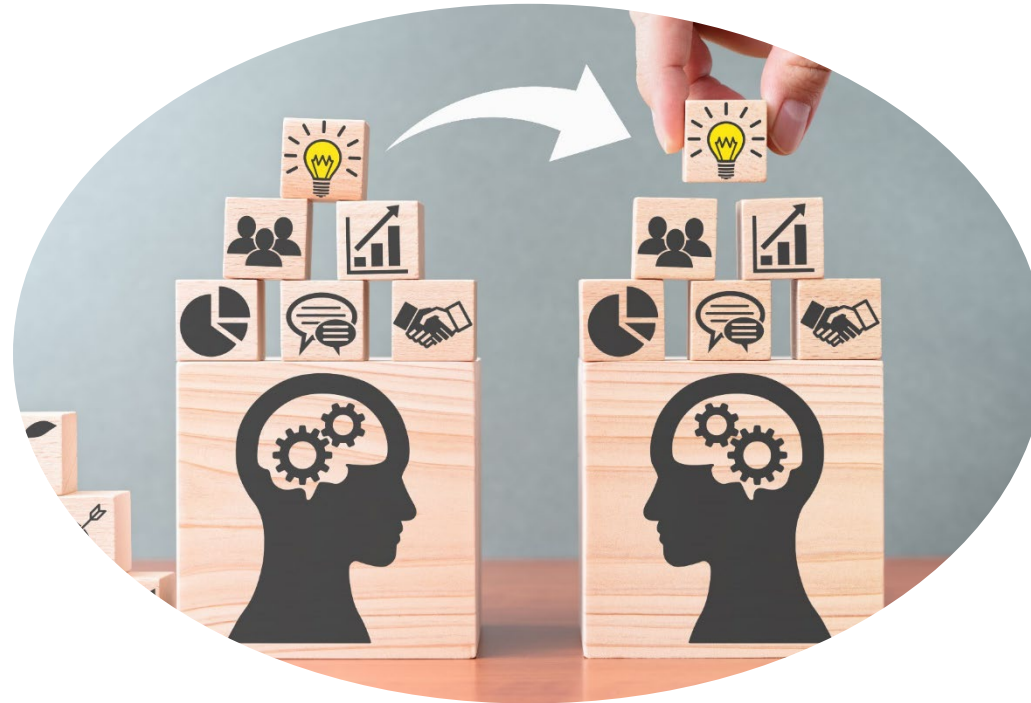


CSLF Technical Group  
IEAGHG inputs



CCUS Initiative  
IEAGHG inputs

## Knowledge Transfer



Expert Reviewers,  
Accredited Observer  
**AR6 reviews**  
AR6 – 98 comments  
provided



London Convention:  
Regular updates on CCS:  
ROAD permit assessment, Offshore workshops  
**CO<sub>2</sub> Export Resolution 2019**

ISO TC-265  
IEAGHG inputs

