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
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

IEAGHG ExCo members

IEA GHG

Proposal
Outlines

ExCo

Member

Voting

ExCo

Proposals

Studies

and

Reports

CSLF TG
CSLF proposed/related studies

Recent reports:
- Hydrogen Production with CCS workshop. 6th November 2020, Paris. IEAGHG 2020/TR01
- 4th 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)
  • PCCC conferences - PCCC6, UKCCSRC, virtual, 19-21 Oct 2021
  • Negative CO₂ Emissions conference – 14-17 June 2022 Gothenburg
  • International CCS Summer Schools
• The leading conference for CCUS for more than 30 years returns for an ‘in person’ attendance. Hosted by Club CO2 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
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
<table>
<thead>
<tr>
<th>Title</th>
<th>Contractor</th>
<th>Report number</th>
<th>Proposed by</th>
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<tr>
<td>Criteria for Depleted Reservoirs to be Developed for CO2 Storage</td>
<td>BEG at U.Texas</td>
<td>2022-01</td>
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<td>Current State of Knowledge Regarding the Risk of Induced Seismicity at CO2 Storage Projects</td>
<td>BEG at U.Texas</td>
<td>2022-02</td>
<td>IEAGHG</td>
<td>01/02/22</td>
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<td>Prime Solvent candidates for next generation of PCC plants</td>
<td>Khalifa Uni.</td>
<td>2022-03</td>
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<td>28/02/22</td>
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<td>From CO2 to Building Materials - Improving Process Efficiency</td>
<td>Imperial College</td>
<td>2022-04</td>
<td>UK</td>
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<td>Feasibility study on achieving deep decarbonization in worldwide fertilizer production</td>
<td>Wood</td>
<td>2022-05</td>
<td>UK</td>
<td>03/03/22</td>
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Expert Networks and other events

2020 / 2021

# Webinar series (recent)

- Established June 2015, 38 webinars to date

<table>
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<tr>
<th>Webinar title</th>
<th>Date</th>
<th>Presenter</th>
<th>No. attendees</th>
<th>No. YouTube views to date</th>
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<tr>
<td>The Road to CCS Project Permitting – Operators’ Experiences With Risk Management During the Permitting Process</td>
<td>18/01/2022</td>
<td>IEAGHG RMN Network</td>
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<td>IEAGHG/IETS iCCUS Workshop: CCUS Technologies in Industrial Systems</td>
<td>01/03/2022</td>
<td>Various</td>
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<td>Criteria for Depleted Reservoirs to be Developed for CO2 Storage</td>
<td>04/03/2022</td>
<td>IEAGHG &amp; BEG at U.Texas</td>
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<td>Study on Global Assessment of Direct Air Capture Cost</td>
<td>23/03/2022</td>
<td>IEAGHG, Element Energy &amp; Imperial College</td>
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<td>Current State of Knowledge Regarding the Risk of Induced Seismicity at CO2 Storage Projects</td>
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<td>IEAGHG &amp; BEG at U.Texas</td>
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<td>Feasibility Study on Achieving Deep Decarbonization in Worldwide Fertilizer Production</td>
<td>24/05/2022</td>
<td>IEAGHG, Wood &amp; Ergo</td>
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<td>Information Paper Title</td>
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<td>Issue Date</td>
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<td>(CONFIDENTIAL) Summarising the DETECT Project</td>
<td>2021-IP27</td>
<td>03/12/2021</td>
<td>JWC</td>
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<td>Hydrogen for net zero</td>
<td>2021-IP28</td>
<td>13/12/2021</td>
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<td>(CONFIDENTIAL) 83rd WPFE</td>
<td>2021-IP29</td>
<td>16/12/2021</td>
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<td>OGCI Gulf Countries CCUS White Paper External Stakeholder Workshop</td>
<td>2022-IP01</td>
<td>31/01/2022</td>
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<tr>
<td>IPCC Climate Change 2022 Impacts, Adaptation and Vulnerability</td>
<td>2022-IP02</td>
<td>10/03/2022</td>
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<td>IPCC approves the Summary for Policymakers for Working Group III Mitigation of Climate Change</td>
<td>2022-IP03</td>
<td>05/04/2022</td>
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<td>(CONFIDENTIAL) IEA Renewable Energy Working Party Meeting 5th and 6th April 2022</td>
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<td>IPCC WGIII Report</td>
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## IEAGHG Information Papers (recent)

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<tr>
<th>Information Paper Title</th>
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<td>CSLF 2021 Technology Road Map</td>
<td>2021-IP16</td>
<td>21/09/2021</td>
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<td>Nature article on CDR</td>
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<td>CONFIDENTIAL 82nd meeting of the IEA Working Party on Fossil Energy, 30 September 2021</td>
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<td>UK Net Zero Strategy: Build Back Greener: Synopsis on hydrogen and CCUS</td>
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<td>Net Zero Strategy and GGRs</td>
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<td>IEA Global Hydrogen Review 2021</td>
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<td>IEA: An Energy Sector Roadmap to Carbon Neutrality in China</td>
<td>2021-IP22</td>
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<td>The Global Methane Pledge</td>
<td>2021-IP23</td>
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<td>Net zero electricity in G7</td>
<td>2021-IP24</td>
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<tr>
<td>Next Generation Capture Technologies</td>
<td>2021-IP25</td>
<td>22/11/2021</td>
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</table>
London Convention:
Regular updates on CCS:
ROAD permit assessment, Offshore workshops
CO$_2$ Export Resolution 2019

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

Knowledge Transfer

CSLF Technical Group
IEAGHG inputs

ISO TC-265
IEAGHG inputs

CLEAN ENERGY
Ministerial
Advancing Clean Energy Together

IEAGHG inputs

Input to WPFE