GHGT-18 PERTH 25–29 OCT 2026
WESTERN AUSTRALIA

Call for Abstracts

IEAGHG australian energy producers CO2CRC CSIRO Australian Government Geoscience Australia

GHGT-18

WELCOMING THE WORLD TO PERTH

Established in 1997, the Greenhouse Gas Control Technologies (GHGT) conference series is the premier international forum dedicated to greenhouse gas reduction technologies – with a focus on carbon capture, utilisation, and storage (CCUS). GHGT-18, which will be held in Perth, Western Australia in 2026, will educate, inspire, and lay the foundation for international collaboration to accelerate commercial-scale development of CCUS technologies worldwide.

Australia is a global leader in CCS research, development and deployment, underpinned by over two decades of coordinated industry and government efforts and international collaboration. The country is home to two of the world's largest operational CCS projects – the Chevron Gorgon CCS Project in Western Australia and the Santos and Beach Energy Moomba CCS Project in South Australia.

Australia's CCS journey began in 1998 with the landmark GEODISC Project, which assessed the continent's carbon dioxide storage potential. That same year, Perth hosted the first Australian CCS conference – making it a fitting home for GHGT-18, 28 years later.

Perth is now a hub for CCS innovation, with major project developers and research facilities based in the region, as well as world-class CCS research facilities. In October 2026, GHGT-18 will welcome industry leaders, government officials, business partners, and cleantech innovators from around the globe – all united by a common goal: advancing technology, innovation, and greenhouse gas (GHG) mitigation.

Co-hosted by an Australian consortium - Australian Energy Producers, CO2CRC, CSIRO and Geoscience Australia - GHGT-18 will take place in Perth, Western Australia in a state-of-the-art venue that offers an inspiring space for ideas, networking, and partnership-building, set against Perth's stunning riverside backdrop.

Through keynote speeches, panel discussions, plenary sessions, and thought-provoking Oral and E-poster presentations, GHGT-18 will explore emerging and innovative technologies from idea to implementation, concept to commercialisation.

Join us in Perth – where innovation meets action. GHGT-18 will be a global catalyst for the next wave of CCUS development.

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CALL FOR ABSTRACTS

Conference organisers invite submissions of abstracts for consideration for both Oral and E-poster presentations. All abstracts should align with the technical themes of the conference and include detailed information to facilitate fair assessment. Abstracts must clearly and accurately represent the content of the paper proposed to be presented at GHGT-18 and must have the permission of all co-authors or parties before submitting.

Special attention will be given to the presentation of results and new developments in CCS, CCUS, and other clean energy technologies and opportunities. Substitution of papers will not be accepted.

By submitting an abstract, if accepted, at least one author is expected to register, attend, and participate in person at GHGT-18. All presenters will be required to pay the registration fee. To ensure their work can be presented they or a co-author(s) should complete their registration for GHGT-18 by June 2026 (before early-bird registrations end) when the online agenda will be published.

Click here to submit your abstract(s)

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ABSTRACT FORMAT

Abstracts should be between 500 and 1000 words, on the conference template, in English, and contain the paper title, author(s) name(s) and organisation(s). Abstracts submitted below or above this word limit may not be accepted for review.

Submission Process

When submitting work it is important to remember that, if selected, the online agenda will always show the submitting author as the presenter of the work, so if you are planning to submit multiple abstracts, and intend that a different co-author will present, then those abstracts should be submitted by the intended presenter, otherwise your name will show as presenter against all the work you submit. It is also important to ensure you select both the main theme and the sub-theme, if you are unsure your work fits under one of the sub-themes listed you should choose 'other' from the list to ensure it is seen by the correct reviewer – do not select nothing.

Presentation Format on Submission

When submitting you will see two options of either Oral or E-poster. You can select your preference but be aware that the Technical Programme Committee (TPC) will make the final decisions on which abstracts would fit best in the oral technical sessions and which would be better suited to an E-poster presentation (please see full description further down).

Deadline

Abstracts should be submitted via the conference website: www.ghgt.info.
Abstract submission will open in September 2025. Abstracts must be received by the conference organisers by January 19, 2026. Abstracts must use the template available on the GHGT-18 website and no further abstracts will be accepted after this deadline.

Assessment & Selection

The TPC will assess and select the abstracts, based on the technical input from the Expert Panel, and then allocate the selected abstracts for the sessions. As GHGT is the biggest international conference for CCUS we would normally expect to receive over 1000 abstracts from authors, of which 355 will be selected for oral presentations across the 71 sessions.
Oral presentations and E-posters are valued with equal credit at GHGT conferences.

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PRESENTATION FORMATS

Oral Presentations

An oral presentation is given in person (not virtual) in PPT format using your own organisations template and is set at 20 minutes - 5 minutes of which will be a Q&A facilitated by the session chair. The PPT is not published by the conference and not shared with anyone other than the audience in the room for that session. A full paper is required for inclusion in the conference proceedings, which are published only after the event and exclusively feature work that has been presented.

Key benefits

- Work credited and included in online and printed programme
- Oral presentation in a parallel technical session
- Paper published via SSRN following the conference (paid for by the conference)

E-poster presentations

The E-posters are multimedia quick-fire presentations and improve upon the previous E-poster sessions from GHGT-16 & 17 based on feedback received.
A multimedia quick-fire presentation is a short, fast-paced talk, typically 3-5 minutes, that uses various media elements like text, images, graphics, audio, and video to provide a concise overview of a topic. All work is presented in person (not virtual) and will be managed by specialist provider Kubify. All training, support and tools are provided by Kubify before, during and after the conference. Kubify will also create a mini version of the work, featuring a QR code that delegates can scan to access the full presentation, helping them plan their schedules and engage during the assigned E-poster session. Conference delegates can also access the presentations at any time, via the Kubify showcase website, to explore the interactive content and engage with the authors and other delegates. This can include posting comments and questions in the chat area.

Key benefits

- Multiple opportunities to share your work (pre, during and post conference)
- A captive audience at your E-poster enabling easy follow up and connection
- Work referenced in the conference proceedings
- Paper published via SSRN following the conference (paid for by the conference)
- Content available via the Kubify website for at least 6 months post conference

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EXPERT REVIEW PANEL

The Expert Panel will support the evaluation of the submitted abstracts with experts covering the range of themes. Each paper will be independently reviewed by a minimum of two Expert Panel Members, who will score the work, and make their recommendations for the work, which will then be reviewed and final decisions made by the Technical Programme Committee.

The Technical Programme Committee includes:

Tim Dixon (Co-Chair)	IEAGHG, UK
Paul Feron (Co-Chair)	CSIRO, Australia
Carlos Abanades	CSIC, Spain
Mohammad Abu Zahra	Global CCS Institute
Sue Hovorka	The University of Texas at Austin, USA
Aleks Kalinowski	Geoscience Australia, Australia
Philip Llewellyn	TotalEnergies, France
Sean McCoy	University of Calgary, Canada
Lincoln Paterson	CSIRO, Australia
Matthias Raab	CO2CRC, Australia
Andrea Ramirez	Delft University, The Netherlands
Nicola Clarke	IEAGHG, UK
Carys Blunt	IEAGHG Secretariat, UK

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NOTIFICATION

Subject to the completion of the review process, applicants will receive notification by the end of April 2026 indicating whether their abstract has been accepted or rejected. The offer will specify the format of the presentation, which will need to be accepted or declined, as well as highlighting that a full paper will be published once the conference has taken place and all work presented.

PUBLICATIONS

All selected Abstracts will be viewable on the agenda section of the conference website by early June 2026. The full paper will not be published on the conference website but via SSRN. Authors will receive a link to submit the paper of the presented work directly to SSRN.

IJGGC SPECIAL ISSUE

Selected presentations (both Oral and E-poster) will be invited to submit papers to a special issue of the International Journal of Greenhouse Gas Control. Authors will be notified after the conference and provided with a link and deadline to submit directly to Elsevier. If their work is accepted for the issue, authors will be asked to replace their full paper in SSRN with a shortened version to ensure the conference proceedings remain complete.

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THEME/SUBTHEME BREAKDOWN

The GHGT-18 Technical Programme Committee has outlined a list of subthemes, and authors are required to select the most appropriate category for their paper when submitting.
Because the list is not exhaustive, should an abstract not fit under any of the listed subthemes, they can be submitted under Other/No Subtheme.

1. ADVANCES IN CAPTURE TECHNOLOGY

- Absorbent degradation and waste treatment
- Absorption pilot plants
- Absorption process emissions
- Absorption process fundamentals
- Absorption process modelling
- Absorption: other topics
- Advanced solvents, non-aqueous, ionic liquids, carbonate solutions etc
- Alternative gas separation principle
- Calcium looping materials, pilots and processes
- Chemical looping materials, pilots and processes
- CO_2 Purification/cryogenic processes
- DAC materials and pilots
- Membrane materials and processes
- Oxycombustion fundamentals and processes
- Solid sorbent materials
- Solid sorbent processes
- Solid sorbent pilots
- Other/No sub theme

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2. ADVANCES IN CO_2 GEOLOGICAL STORAGE

- Advanced Monitoring: Geochemical & Tracer Methods
- Advanced Monitoring: Geophysical & Pressure Methods
- Australian RD&D projects
- Case Studies in Geological Storage
- CO_2 for Enhanced Hydrocarbon Recovery & Transition Fuels
- Digital Tools and AI for Storage Optimisation
- Environmental impacts
- Field-scale reservoir modelling
- Geochemical modelling
- Geomechanics and geomechanical modelling
- Injectivity and Well Performance
- Integrated Monitoring & Verification (M&V)
- Leakage Risks and Containment Assurance
- Novel Storage Concepts and Unconventional Reservoirs
- Other/No sub theme
- Plume Migration and Long-Term Fate of CO_2
- Risk assessment and management
- Storage capacities, trapping and upscaling
- Storage Characterisation and Site Screening
- Storage Economics and Cost Optimisation
- Storage reservoir engineering

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3.CCS ECONOMIC, SAFETY, AND SUSTAINABILITY ASSESSMENTS

- CCS and water use
- Costs, including comparison to other mitigation options
- Energy efficiency in CCS systems
- Health, safety and environmental risk assessment
- Integrating CCS into the energy system
- Integrated CCS systems
- Life cycle assessment (LCA) studies
- Project financing, commercial arrangements and financial risk
- Other/No sub theme

4. CCS FOR INDUSTRIAL SOURCES (NON-POWER) & HYDROGEN

- Cement
- Gas LNG/Production
- High concentration CO_2 sources
- Hydrogen & CCS
- Iron and steel
- (Petro) chemical
- Refineries
- Other/No sub theme

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5. CO_2 UTILISATION FOR GHG MITIGATION

- CO_2 conversion
- CO_2 ex-situ mineralisation
- CO_2 for energy (storage)
- CO_2 for enhanced geothermal
- CO_2 use for production of algae or chemicals
- Other/No sub theme

6. DEMONSTRATION PROJECTS AND MAJOR NATIONAL AND INTERNATIONAL R&D PROGRAMMES

- Capture only CCS projects
- Integrated Commercial CCS projects (definition private-govt funded
- Integrated Demonstration Projects (definition govt funded e.g. regional partnerships)
- Integrated pilot projects (research project vehicles)
- Non-conventional integrated storage / capture projects
- Programme overviews
- Storage only CCS projects
- Other/No sub theme

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7. DEVELOPMENTS IN OTHER STORAGE OPTIONS FOR CO_2

- Basalts & other low permeability reservoirs
- Coal beds
- Ocean storage
- Subsurface mineralisation
- Other/No sub theme

8. ENERGY, CLIMATE CHANGE POLICIES AND CCS

- CCS incentives
- CCS policy
- CCS technology transfer
- Emissions trading schemes (PACM, EU, CARB, JCM, Australia etc.)
- GHG footprint of energy options
- UNFCCC and future global climate policy and policy tools
- Other/No sub theme

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9. LEGAL & REGULATORY ASPECTS & FINANCE AND INSURANCE

- Emissions accounting
- Finance
- Insurance
- Liability transfer and long-term liability
- Management of pore space and property rights
- Marine treaties
- Operational liabilities, financial security and project closure
- Permitting storage site exploration, project development and CO_2 storage
- Standards
- Other/No sub theme

10. NEGATIVE CO_2 EMISSIONS

- Biomass Energy CCS (BECCS)
- Biomass Carbon Removal and Storage (BiCRS)
- Direct Air Capture CCS (DACCS)
- Enhanced Rock Weathering (ERW)
- Enhancing natural mineralisation routes above ground
- Marine CDR (mCDR)
- Policy
- Other/No sub theme

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11. PUBLIC PERCEPTION AND COMMUNICATION ON CCS, EDUCATION AND CAPACITY BUILDING

- Attitudes towards CCS and the portfolio of low carbon energy technologies
- Capacity building for CCS in developing countries
- Case studies of communication activities
- Education and training issues
- Social science research for CCS deployment
- Other/No sub theme

12. TRANSPORT AND INFRASTRUCTURE DEVELOPMENT

- CO_2 quality
- Infrastructure and source sink matching
- Pipelines
- Safety and dispersion
- Shipping
- Other/No sub theme

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REGISTRATION

Early Bird Online registration will be open March 2026 and will end June 1, 2026. Exact dates will be included on the conference website and via social media closer to the time.

CONTACT

For any assistance with the abstract submission process, please contact the GHGT-18 events team on events@ieaghg.org.

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Join us in Perth
where innovation meets action.

GHGT-18 will be a global catalyst
for the next wave of CCUS development.

ghgt.info

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