With more than 20 years’ experience in the field of CCUS, IFPEN is co-organizing this 16th edition of the IEAGHG (International Energy Agency Greenhouse Gas R&D Program) conference on greenhouse gas control technologies, alongside the Club CO₂, ADEME, BRGM and TotalEnergies. It will be held in Lyon from 23 to 27 October 2022. A first for France, at a time when decarbonization objectives call for an acceleration in CO₂ emission reductions.

The must-attend event in the international CCUS research calendar

France was chosen by the International Energy Agency’s Greenhouse Gas R&D Program - the IEAGHG - to host the 16th international conference on greenhouse gas control technologies (GHGT-16).
This event represents the key focal point of international research on CO₂ capture, utilization and storage (CCUS). Held every two years, it brings together more than 1,000 participants to discuss the technologies designed to help meet the objectives set out in the 2015 Paris Climate Agreement.

**GHGT-16 in figures:**
- 815 abstracts received from 39 countries, including 79 from France (2nd biggest contributor behind the USA with 141 abstracts)
- 355 oral presentations
- 360 posters
- 14 sponsors, 23 exhibitors

As part of a consortium formed with the Club CO₂, ADEME, BRGM and TotalEnergies and with considerable expertise developed throughout the entire chain, IFPEN is co-organizing this edition, the focus this year being the industrial applications of CCUS technologies. Leading the way is Florence Delprat-Jannaud, CO₂ coordinator and manager of the "CO₂: capture, storage, utilization & negative emissions" program at IFPEN and chair of the Club CO₂.

**Around twenty speakers, a stand and laboratory tours IFPEN on the front line**

Highlights on the agenda: plenary speeches by eminent global climate change and policy experts: expert debates, beginning on Monday 24 October with the roundtable entitled “Regulation and policies for successful deployment of CCS” chaired and moderated by Florence Delprat-Jannaud, with the participation of Pierre-Franck Chevet, chairman of IFPEN and chairman of Ancre.

The challenges of CCUS technologies will be presented at two poster sessions and 71 technical sessions. Fourteen experts from IFPEN will speak on one of the seven themes of a program that covers the entire value chain: CO₂ capture and storage, transport infrastructures, industrial applications. As well as the purely technical aspects, the conference will also tackle CCUS policies and regulations, societal acceptability and negative emissions.
IFPEN interventions

24 October
Opening speech: Florence Delprat-Jannaud, chair of the Club CO₂

24 October
Assessments from full-chain projects
Chaired by: Florence Delprat-Jannaud

Presentations:
Assessing the role of negative emission technologies in the low carbon transition of the iron and steel sector

Carlos Andrade *

?? Chemical Looping,
Direct Air Capture (DAC)

DMX demonstrator for CO2 capture: pilot unit presentation

David Albarracin-Zaidiza

Thermodynamic and kinetic model for CO2 absorption in the DMXTM process

Pierre Bachaud

25 october

4D Biomass & CCS

Présentations et e-posters:

Life Cycle Assessment of BECCS systems: critical review of life cycle inventories

Sibylle Duval-Dachary

Hybrid Sorbents

Metal-Organic Frameworks (MOFs): from screening to commercialization

Paper #7 - Low reaction enthalpy nitrogenous heterocycle salt solutions for fast cycle CO2 capture

Guillaume Pétaud

Paper #12 - The 3D Project on DMX Demonstration in Dunkirk: a project overview from CO2 capture to storage

Vania Santos-Moreau

26 october

e-posters:

Paper #223 - Gas monitoring in wells in CCS context: Application of a mobile cabin for detecting low content of gas dissolved in water

Audrey Estublier

Paper #506 - Data investigation in the process of selecting a CO2 geological pilot site: example of the Paris
Basin (France)
Damien Bonté

Paper #370 - Effect of Curing Pressure on the Shear Strength of Cement-Casing Interface
Frédérique Rossillon

Paper #794 - removal and 1.5°C: Sharing the Gains from Interregional Cooperation using a Game-Theoretic Approach
Emma Jagu

Paper #390 - \(\text{CO}_2\) Hydrate Stability Zone: Effect of Salinity, Measurements and Models
Anne Sinquin (presented by Audrey Estublier)

27 October

Amine Pilot Plant Studies II
Chairled by: Vania Santos-Moreau

Presentations:
An economic evaluation of eight regional scenarios for the deployment of carbon capture, use and storage in Southern and Eastern Europe to 2050
Paula Coussy

Life cycle assessment of CCUS scenarios in three promising European regions
Guillaume Batôt

Evaluation of surface movement observability and optimization of the monitoring plan through conceptual and coupled flow-geomechanics models - Examples of carbonate and sandstone reservoirs in CCS context
Sarah Bouquet

CCUS - Perspective of a Youth Panel (Final Panel session)
Sibylle Duval-Dachary

Finally, in addition to its conference stand, IFPEN will be organizing a tour of its laboratories at its site in Lyon for participants wishing to gain a more in-depth understanding of the technical challenges facing the sector. They will be able to discover the experimental facilities and \(\text{CO}_2\) capture pilot testing units (chemical looping combustion - CLC -unit, industrial micro-pilot for the DMX process, etc.).

www.ghgt.info
Find out more about IFPEN's research in this field and the many collaborative projects in which IFPEN is involved.

Link to the web page: IFPEN co-organises the GHGT-16 conference on CO2 capture, storage and utilization