



16TH GREENHOUSE GAS CONTROL
TECHNOLOGIES CONFERENCE

23 - 27 OCTOBER 2022



Written on 23 October 2022



5 minutes of reading



Events

Innovation and Industry

Climate, environment and circular economy

CO₂ capture, utilization and storage



23 - 27 October 2022

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 ON THE WHOLE CCUS CHAIN



Among our solutions:



CCS

1 industrial pilot plant in Dunkirk, France: 3D* project, DINAMX project**

Biofuels

Several technologies: Vegan™, Futurol™, BioTfuel®, Alcool To Jet...



Transport

Improved powertrains for long haul vehicles: LongRun* project



* Those projects have received funding from the European Union's Research and Innovation Programme Horizon 2020



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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,

Chaired by: **Stéphane Bertholin**

Direct Air Capture (DAC)

Chaired by: **Florent Guillou**

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

Chaired by: **Paula Coussy**

Présentations et e-posters:

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

Sibylle Duval-Dachary

Hybrid Sorbents

Chaired by: **Florent Guillou**

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

Chaired by: **Florent Guillou**

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 - CO₂ Hydrate Stability Zone: Effect of Salinity, Measurements and Models

Anne Sinquin (presented by Audrey Estublier)

27 october

Amine Pilot Plant Studies II

Chaired 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 CO₂ capture pilot testing units (chemical looping combustion - CLC -unit, industrial micro-pilot for the DMX process, etc.).

www.ghgt.info



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Find out more about [IFPEN's research](#) in this field and the many [collaborative projects in which IFPEN is involved](#).

IFPEN co-organises the GHGT-16 conference on CO2 capture, storage and utilization
23 October 2022

Link to the web page :