

Africa CCUS Forum

Ben Guerir, Morocco

February 4-5, 2025

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February 4-5, UM6P, Ben Guerir, Morocco

Host: Mohammed 6 Polytechnic University, OCP, Innov'X

Partners: IEAGHG, Global CCS Institute, University of Texas

Chairs: Prof. Abdelghafour Zaabout & Prof. Youssef Belmabkhout

CO₂ Capture, Utilization, and Storage (CCUS) is expected to play a major role in industrial decarbonization, benefiting both hard-to-abate industry and energy/carbon-negative sectors. While CCUS deployment is gaining accelerated momentum globally, its potential in Africa remains underappreciated. This lack of attention stems from the perception that Africa's CO₂ emissions are minor and the widespread belief in the region's significant renewable energy potential. This creates the impression that complete decarbonization can be achieved without CCUS.

Held over two days, the CCUS Africa Forum aims to highlight CCUS as a business opportunity in the growing carbon management market. It seeks to emphasize CCUS's potential to cost-effectively decarbonize hard-to-abate industries and existing fossil fuel power plants. This approach not only prevents these industries from becoming stranded assets but also strengthens the business case for renewable energy by offering flexible solutions to address intermittency. The event brings together key speakers covering the entire CCUS value chain, including those involved in policy and regulation, finance, emitters, technology development, capacity building and more.

Session and Program Details

DAY 1 – February 4 | General Program

Coffee and networking

8:30 – 9:00

CCUS in the Global Climate Scene

9:00 AM – 9:30 AM

Carbon capture and storage is gaining ground globally as a proven technology that drives and supports industrial decarbonisation. This presentation will highlight the current state of CCS in the global landscape of climate change mitigation efforts and its progress so far.

Climate Strategies and Roadmaps in Africa

9:30 AM – 10:30 AM

The session will assess the national climate strategies across the African region and beyond, and unpack where CCS fits in.

The Current Status of CCS: Project Perspectives

10:30 AM – 11:30 AM

CCS projects are actively underway in the African region. Listen in as those involved in project development speak to their experiences.

CO2 Storage: Effective and Safe Storage Development

11:30 AM – 12:30 PM

CO2 storage development has been around for over 50 years, both with efficacy and safety at the forefront. This panel will discuss the precautions taken to ensure well assessed reliable steps remain primary in storage development projects.

Lunch Break

12:30 PM – 1:30 PM

Financing Industrial CCUS

Panel Discussion

1:30 PM – 2:30 PM

During this session, CCS and finance experts will impart their insights on the varying financing options and opportunities to realize CCS efforts, including initiatives tied to research and development.

Regulatory Frameworks and CCS

2:30 PM – 3:30 PM

Experts will assess why regulatory frameworks are a key part of the blueprint in developing CCS projects at scale, and how to develop and tailor them further.

Carbon Market Development in Africa

3:30 PM – 4:00 PM

This fireside chat/presentation will speak to the value of carbon emissions trading schemes in driving CCS projects, highlighting positive case studies whilst outlining potential hurdles and challenges.

Concluding Remarks

4:00 PM

DAY 2 – February 5 | Technical Program

Industrial Project development and business case for CCUS

Panel Discussion

9:00 AM – 10:00 AM

Experts involved in developing sustainable CCUS business cases will showcase what's needed across the CCUS value chain to heighten buy-in of the technology.

CCS Resource Readiness: Workforce and Capital

10:00 AM – 11:00 AM

Ensuring skills and resources are available to align with projected CCS project deployment is key. This panel discussion will assess how to pave a successful path forward on that front, with international collaboration and capacity building in mind.

Carbon Negative Solutions

11:00 AM – 12:00 PM

Carbon management technologies are diverse and wide ranging. This session will dive deeper into carbon negative solutions, such as direct air carbon capture (DAC) and bioenergy with carbon capture and storage (BECCS) and highlight ongoing projects and potential opportunities.

Lunch Break

12:00 PM – 1:00 PM

CO₂ Transport Networks, Infrastructure and Regional Interconnections of Potential CCUS Clusters

Panel Discussion

1:00 PM – 2:00 PM

This session aims to highlight how and why CCUS networks supports efficiencies – both in terms of cost and through shared infrastructure development – while assessing how CO₂ transport links can be utilised to drive the development of such networks.

CCUS in Power Generation, Flexible Fossil Fuel Plants, CCUS & Renewable Energy

2:00 PM – 3:00 PM

The role of CCUS in the energy transition is critical and is steadily being adopted to support the decarbonisation goals in that sector. The session will feature experts involved in these efforts, highlighting pending opportunities to do so further in the African region.

Geological Storage Potential of Africa: Cross-border CO₂ Storage

3:00 PM – 4:00 PM

While geological capacity is plentiful in the African region, its timely development will be key to supporting a CCS market. This fireside chat will discuss both domestic and cross-border CO₂ storage opportunities.

Concluding Remarks

4:00 PM