

Carbon Utilization Infrastructure, Markets, Research and Development

Meeting #3 (April 29, 2022)

Meeting Objectives:

- Open session information gathering to hear from DOE's Office of Clean Energy Demonstrations
- Closed session to discuss subgroup progress and first report draft

April 29, 2022, 10:00 am ET

SPEAKER AND COMMITTEE LOGIN INFORMATION FOR PUBLIC SESSION ONLY

Topic: Carbon Utilization Meeting #3

Join from PC, Mac, Linux, iOS or Android: <https://nasem.zoom.us/j/7090864108>

Or iPhone one-tap :

US: +14702509358,,7090864108# or +16465189805,,7090864108#

Meeting ID: 709 086 4108

International numbers available: <https://nasem.zoom.us/u/a2rKOc2E9>

PUBLIC LIVESTREAM LINK:

<https://livestream.com/accounts/7036396/events/10325592>

PUBLIC SESSION

- 10:00 AM ET** **Welcome and opening remarks**
Emily Carter, Committee Chair, and Beth Zeitler, Study Director
- 10:05 AM ET** **Remarks from the Department of Energy's Office of Clean Energy Demonstrations**
Kelly Cummins, Acting Director and Principal Deputy Director
Todd Shrader, Deputy Director for Project Management
- 10:25 AM ET** **Q&A for National Academies' Committee and Staff**
- 10:50 AM ET** **Public Comment Period**
- 10:55 AM ET** **Adjourn Public Session**

COMMITTEE LOGIN INFORMATION FOR CLOSED SESSION

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CLOSED SESSION

11:00 AM ET Comments and discussion on open session presentation

*Emily Carter, Committee Chair
All committee members*

11:30 AM ET Subgroup Updates

Subgroup Leads and National Academies' staff

10 minutes for each subgroup to update on their chapter status and plans

- CO₂ Products: Volker Sick and Beth Zeitler
- CO₂ Infrastructure: Andrea Ramírez-Ramírez and Catherine Wise
- Enabling Infrastructure: Joe Powell and Catherine Wise
- Policy, Regulatory, and Societal Considerations: Emanuele Massetti and Liana Vaccari

12:10 PM ET Break

12:30 PM ET Discussion of connections between chapters

*Emily Carter, Committee Chair, and National Academies' staff
All committee members*

- Identify dependencies (e.g., infrastructure groups need information about products)
- Identify and address overlaps in subgroup work
- Raise questions or concerns with report content

1:45 PM ET Discussion of first report takeaway messages

*Emily Carter, Committee Chair, and Catherine Wise, staff lead for first report
All committee members*

Some questions to consider:

- What are priority opportunities for development, improvement, and expansion of infrastructure to enable future carbon utilization opportunities and market penetration? (from SOT)
- What challenges and complexities should DOE consider in making decisions about near-term infrastructure development for CO₂ utilization?
- Under what conditions will there be needs for local, regional, or national infrastructure, vs under what conditions will CO₂ utilization facilities be collocated with carbon dioxide sources?
- What policies will enable CO₂ utilization to participate in a net-zero GHG emissions economy?
- What aspects of system boundary and lifecycle analysis need to be considered for CO₂ utilization to be net-zero or net-negative emissions?
- How can CO₂ utilization systems be designed to be equitable and just, safe, and beneficial to communities, especially those burdened with environmental and other harms?

2:50 PM ET **Summary of Action Items and Next Steps**
Emily Carter, Committee Chair, and National Academies' staff

3:00 PM ET **Adjourn**