

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Carbon Utilization Information Gathering Webinar Series
March 1-3, 2022

Register [here](#)

View Online [here](#)

Tuesday, March 1
Day 1: CO₂-Derived Products

This session will examine options for CO₂-derived products and carbon utilization processes to participate in a circular carbon economy, including potential production technologies, market volumes, and price points. The three panels will focus on technologies and processes for CO₂-derived carbon-based solid products, commodity chemicals, and high-value specialty chemicals, respectively. Each panel will examine the location and scale of current deployment of these technologies and processes, as well as key technical, market, and policy barriers to and opportunities for future, expanded deployment.

1:00 PM ET

Welcome

Emily Carter, Princeton University, Committee Chair

1:05 PM ET

Panel Discussion and Q&A: Solid Products

Marcus Extavour, XPRIZE, moderator

Rahul Shendure, CarbonBuilt

Karl Haider, Covestro

2:00 PM ET

Panel Discussion and Q&A: Primary Commodity Chemicals

Julio Friedmann, Columbia University, moderator

Jennifer Holmgren, LanzaTech

André Bardow, ETH Zürich

Cathy Tway, Johnson Matthey

Jean-Paul Lange, Shell

3:00 PM ET

Panel Discussion and Q&A: High-Value Specialty Products

Bill Tumas, National Renewable Energy Laboratory, moderator

Etosha Cave, I2

Ed Rightor, American Council for an Energy-Efficient Economy

Gay Wyn Quance, Solid Carbon Products

4:00 PM ET

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Wednesday, March 2
Day 2: CO₂ Utilization Infrastructure

This session will investigate needs, opportunities, and challenges for developing infrastructure to enable CO₂ transportation and utilization. The first panel will address CO₂ transportation options, such as pipeline and freight, and consider opportunities to repurpose existing infrastructure for CO₂ transport. The second panel will examine infrastructure needs and challenges for CO₂ capture and utilization companies, including those pursuing biological CO₂ conversion, CO₂ mineralization, and CO₂ conversion into chemical products. The final panel will investigate existing and planned industrial clusters for carbon capture, utilization, and storage (CCUS) to understand infrastructure opportunities and challenges as well as societal acceptance and environmental justice concerns.

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| 11:00 AM ET | Welcome
<i>Emily Carter, Princeton University, Committee Chair and moderator</i> |
| 11:05 AM ET | Panel Discussion and Q&A: CO₂ Transportation Options
<i>Michael Drescher, Equinor</i>
<i>Jesse Jenkins, Princeton University</i> |
| 12:00 PM ET | Panel Discussion and Q&A: Infrastructure Needs for Capture and Utilization Companies
<i>Marcus Extavour, XPRIZE</i>
<i>Geoff Holmes, Carbon Engineering</i>
<i>Jennifer Holmgren, LanzaTech</i>
<i>Robert Niven, Carboncure</i>
<i>Kristjana Kristjánsdóttir, Carbon Recycling</i> |
| 1:00 PM ET | Panel Discussion and Q&A: CCUS Industrial Clusters
<i>Brett Perlman, Center for Houston's Future</i>
<i>Bilal Ahmad, Northern Endurance Partnership</i>
<i>Nico de Meester, Porthos Project</i> |
| 2:00 PM ET | ADJOURN |

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Thursday, March 3

Day 3: Policy, Regulatory, and Societal Considerations for CO₂ Utilization

Carbon capture, utilization, and storage (CCUS) presents new regulatory, policy, and general acceptability challenges that may limit its contribution to a circular carbon economy. This session will gather developers, regulators, and policy experts to explore policy, regulatory, and environmental justice considerations related to CO₂ transportation and utilization. The first panel will examine regulatory and policy challenges faced by developers of CCUS projects. The second panel will consider the regulatory framework and policies that can facilitate the deployment of CO₂ utilization technologies in a way that aligns with other public policy objectives. The third panel will focus on environmental justice considerations related to planning and siting CO₂ capture, transportation, and utilization, with the objective to assess potential obstacles to and solutions for wide public acceptability of CCUS.

11:00 AM ET

Welcome

Emily Carter, Princeton University, Committee Chair

11:05 AM ET

Panel Discussion and Q&A: Perspective of Project Developers

Stephen Comello, Stanford University, committee member and moderator

Al Collins, Oxy Low Carbon Ventures

Kevin Poloncarz, Covington & Burling, LLP

Keith Tracy, Elysian

12:00 PM ET

Panel Discussion and Q&A: Regulatory Frameworks

Emanuele Massetti, Georgia Institute of Technology, committee member and moderator

Sheila Olmstead, University of Texas at Austin

Linda Daugherty, Department of Transportation

1:00 PM ET

Panel Discussion and Q&A: Environmental Justice Considerations

Alayna Chuney, Carbon180, committee member and moderator

Vernice Miller-Travis, Metropolitan Group

Deepika Nagabhushan, Carbon Direct

Patricia Romero-Lankao, National Renewable Energy Laboratory

2:00 PM ET

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