



Earth Resources in the Meeting of the Committee on Earth Resources **ENERGY TRANSITION** *A Focus on Carbon Capture, Utilization, and Storage*

The primary energy systems that have supplied energy for transportation, industrial and agricultural production, community services (hospitals, schools), and municipal and individual uses have remained largely unchanged for decades in terms of the basic design of the electric grid and vehicular fleet but appear to be on the verge of a transformational change. This energy transition will involve a shift in energy resources, generation, transmission, and use away from one dominated by fossil fuels to one represented by a range of energy sources such as wind and solar energy, nuclear energy, geothermal energy, and hydropower, in addition to more sustainable uses of natural gas, oil, and coal. This meeting will explore the fundamental importance of carbon capture, use, and storage (CCUS) in geologic settings as a critical part of the approach to the U.S. energy transition.

Objectives:

- Identify aspects of CCUS critical to the energy transition of the next several decades
- Discuss what needs to be done now and in the near future to enable scaling up of this technology
- Facilitate a neutral forum for exchange of ideas and information across sectors and perspectives
- Identify potential areas for further examination by the Committee and the National Academies

MAY 13, 2020 | OPEN SESSION

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11:00 AM **Welcome and Introductions**

Jim Slutz
Committee Chair

PANEL DISCUSSION ON CCUS

11:15 AM **Meeting the Dual Challenge—A Roadmap to At-Scale Deployment of CCUS**

Cindy Yeilding
BP America

Summary of the recent National Petroleum Council Report

Nigel Jenvey
Gaffney Cline & Associates

12:00 PM—SHORT BREAK

12:10 PM	Negative emissions technologies and deep decarbonization—activities at the National Academies of Sciences, Engineering, and Medicine	<i>John Holmes</i> NASEM
12:35 PM	CCS and CCUS: An Update	<i>Franklin M. “Lynn” Orr</i> (NAE) Stanford University
1:05 PM	Discussion—Moderated by Jim Slutz <i>Audience encouraged to raise questions through Zoom hand-raise function</i>	
1:30 PM—ADJOURN		