

CEENRG

Thursday Seminars

Michaelmas Term 2023

Cambridge Centre for Environment,
Energy and Natural Resource Governance

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Towards zero-carbon: Challenges and solutions for electricity systems

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Abstract: We give an update on the status of decarbonization in the United States, with a particular focus on the integration of renewable energy in the electric power system. We discuss how capacity expansion modeling can serve as a quantitative tool to provide guidance to power system planning decisions and decarbonization policies, and demonstrate applications to analyze the benefits of transmission in reaching zero-carbon systems and the role of energy storage in future systems dominated by weather-driven resources. We conclude by identifying key challenges and solutions to achieve a rapid and reliable energy transition and corresponding research questions for the energy systems modeling community.



30 November 2023, 3 – 4 pm (UK Time)

- In-person: **Weston Seminar Room (2.49)** in the David Attenborough Building
- Online: Zoom. Please **REGISTER** to receive Zoom link on the day of the seminar