

Chatham House and the Institute for Carbon Removal Law & Policy, American University

**The prospects of carbon dioxide removal in climate policy-making
within the United States**

Room 2303, School of Law, University of California, Davis (there will be signage from the entrance)
400 Mrak Hall Drive, UC Davis, Davis, CA, 95616
Friday 15th November 2019

This meeting forms part of a programme of work which investigates the role of negative emissions technologies (NETs) in achieving the Paris Agreement climate targets. Previous meetings held in London and Brussels have looked at integrating negative emissions into EU policy-making, the implications and degree to which NETs, and in particular bioenergy with carbon capture storage (BECCS), can be an effective climate mitigation tool. This meeting focuses on the possible deployment pathways of NETs and alternatives to BECCS for the US in particular, in the context of geographical constraints and socio-environmental implications, the role of the private sector, and appropriate governance and finance mechanisms.

This meeting is held under the Chatham House Rule: participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed.

08:40 – 09:00 Arrival and refreshments

09:00 - 09:45 (Session 1): Welcome and introduction: the exigencies driving a focus on carbon dioxide removal (CDR) and negative emissions technologies (NETs)

- *The role of CDR in meeting Paris Agreement targets*
- *What are the assumptions in integrated assessment models and what challenges do they pose?*

Moderator: Richard King

- Albert Lin, professor at the School of Law, UC Davis
- Richard King, Senior Research Fellow, Chatham House
- Wil Burns, Co-Director & Professor of Research, Institute for Carbon Removal Law & Policy, American University
- Jennifer Wilcox, James H. Manning Chaired Professor of Chemical Engineering, Worcester Polytechnic Institute (remote presentation)
- *Roundtable discussion*

09:45 – 12:30 (Session 2 with refreshment break): Land-demanding biological CDR options, potentials, and pitfalls in the United States / California

- *What US land is or could be available for CDR: where is it, what CDR is it best suited for?*
- *What are the socio-environmental implications under different management practices?*

Moderator: Richard King

09:45 – 10:50 (2A) Bioenergy with carbon capture and storage

Speakers:

- David Babson, Program Director, Advanced Research Projects Agency- Energy at the US Department of Energy (remote presentation)
- Daniel Sanchez, Assistant Specialist, University of California-Berkeley
- Ian Rowe, Technology Manager with the Bioenergy Technologies Office, US Department of Energy
- Holly Buck, Emmett Climate Engineering Fellow, UCLA School of Law, Emmett Climate Law Center
- *Roundtable discussion*

10:50 – 11:10 Refreshment break

11:10 – 12:30 (2B) Natural climate solutions:

Moderator: Wil Burns

Speakers:

- Josiah Hunt, Chief Executive Officer, Pacific Biochar
- Jason Funk, Principal and Founder, Land Use and Climate Knowledge Initiative (LUCKI)
- Richard Cameron, Director of Science, The Nature Conservancy
- *Roundtable discussion*

12:30 – 13:30 Lunch break

13:30 – 14:40 (Session 3): Land-sparing CDR options, potentials, and pitfalls in the United States / California

- *What land-sparing alternatives could be deployed in the US?*
- *What are the geographical opportunities and constraints of different land-sparing CDR options at state and federal level?*

Moderator: Richard King

Speakers:

- Klaus Lackner, Director of Center for Negative Carbon Emissions, Arizona State University
- Benjamin Houlton, Director, UC Davis John Muir Institute of the Environment, UC-Davis
- Greg Rau, Senior Researcher, UC-Santa Cruz
- *Roundtable discussion*

14:40 – 15:00 Refreshment break

15:00 – 16:10 (Session 4): Current efforts to foster CDR: policy instruments and industry pathways

- *What is the role of the private sector in furthering responsible CDR approaches, and what are the constraints?*

- *How is CDR policy being operationalized in jurisdictions with existing legislation and regulations?*

Moderator: Wil Burns

Speakers:

- Jenny Lester Moffitt, Undersecretary, California Department of Food and Agriculture
- Greg Nemet, Professor of Public Affairs, University of Wisconsin (remote presentation)
- Maya Batres, Project Manager, Energy & Land Use, The Nature Conservancy
- Jan Mazurek, Director, Carbon Dioxide Removal Fund, ClimateWorks
- *Roundtable discussion*

16:10-16:55 (Session 5): Characteristics of a responsible risk-based approach to CDR in the US / California

- *What are the policy options and possible deployment pathways available?*
- *How to incentivise optimal solutions at different scales through appropriate governance and finance mechanisms*
- *Reflections from participants based on today's discussion*

Moderator: Richard King

Speakers:

- Elisabeth Graffy, Professor of Practice, School for the Future of Innovation in Society, Arizona State University
- Austin Lannes Brown, Executive Director, Policy Institute for Energy, Environment and the Economy, UC-Davis
- *Roundtable discussion on key takeaways*

16:55 – 17:00: Wrap-up and close

Acknowledgments

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