

# Carbon Dioxid Removal

*Wednesday 6 March 2024 10:45 (2 hours)*

Carbon dioxide removal (CDR) is an important additional concept for the longer-term reduction of greenhouse gases. Many different approaches (from natural to technical solutions) are currently being developed, with different economic, environmental and social impacts, but also different potential contributions to climate change mitigation and wider societal goals (Borchers et al. 2022). In our session, we want to look at different approaches and the associated dynamics of the carbon cycle. We call for scientific contributions to analyze CDR measures that are currently being developed. Based on these contributions, we will discuss the potentials, risks and uncertainties of CDR implementation, but also the governance of CDR currently being developed in Germany and Europe.

## 1) Talks and Q&A

Dr Patrick Frings: Towards geochemical tools to quantify CO<sub>2</sub> removal by Enhanced Weathering

Prof Dr Daniela Thrän: Assessment of the actual and longer term potential for biobased NETs in Germany

## 2) Discussion Session: The Draft Proposal on the German Carbon Management Strategy (incl. proposal on revised CCS-legislation)

Introduction: Dr Danny Otto and Dr Till Markus provide an overview of past and current CCS policy in Europe and Germany, highlight its importance in the context of CDR, and present key elements of the proposed German Carbon Strategy, including proposed changes to CCS legislation. They will identify open questions and key challenges to be discussed with the session participants.

Moderated Discussion

**Presenters:** THRÄN, Daniela (UFZ); MARKUS, Till (UFZ); GAWEL, Erik (UFZ)

**Session Classification:** Breakout Sessions