

**Session Title: NEDO Moonshot R&D Program Symposium**

**~ Future Prospect for Direct Air Capture and CO<sub>2</sub> Utilization ~**

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**Abstract title: Learning, Adoption, and Scale-up in Carbon Dioxide Removal**

IPCC modeling shows that meeting Paris Agreement temperature targets and national net zero goals will require the deployment of billions of tons of carbon removal capacity by mid-century. Because the typical duration for new technological systems to reach scale is multiple decades and because current removal capacity is on the order of millions of tons per year, there is tremendous urgency to designing policies to accelerate the processes of learning, adoption, and scale up of a portfolio of carbon removal technologies. This presentation highlights recent work using empirical data to assess promising mechanisms for accelerating innovation processes in CDR.