

Session Title: Negative Emission Technologies

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Abstract title: Role and Cost of Negative Emission Technologies for Carbon Neutrality

In order to achieve carbon neutrality as soon as possible, the opportunities brought by several kinds of technologies should be considered. This presentation shows the role and cost of negative emission technologies (NETs) including BECCS and DACCS for carbon neutrality through the consistent analyses for emission scenarios achieving below 1.5 °C with an integrated assessment model. DACCS requires a large amount of energies; however, residual variable renewable energies (VRE) will be able to supply them and contribute to achieving lower costs. Therefore, DACCS will play an important role for carbon neutrality as a backstop technology.