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Carbon capture technology development in KEPCO

Jeom-In Baek

KEPCO Research Institute, Daejeon, Republic of Korea

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Abstract

Approximate 50% of CO₂ emission is from power plant, cement plant, oil refinery and steel industry. Then Korea Electric Power Corporation (KEPCO) is currently developing CO₂ capture technologies with the climate change strategies for the power sector to cope with global warming. KEPCO Research Institute is responsible for the development of CCS technology to support KEPCO and its subsidiary power companies. To achieve this mission, we focus mainly on developing CO₂ capture technologies with absorption for post-combustion and pre-combustion in power generation plant. This presentation includes the current CO₂ capture research trend and prospects.