

Introduction to CO₂ capture technology

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CCUS(Carbon Capture, Utilization and Storage) technology is an important option for mitigating global warming and achieving the goal of net-zero emissions by reducing CO₂ emissions in the energy sector. CCUS involves CO₂ capture from large point sources, including power generation or industrial facilities that use either fossil fuels or biomass for fuel. The CO₂ can also be captured directly from the atmosphere. Here, I will introduce point-source CO₂ capture technologies such as post-combustion capture and oxy-combustion as well as direct air capture technology.