



Report launch – session outline

Carbon Capture and Storage in the decisive decade for decarbonisation – the case for Asia

Carbon Capture and Storage (CCS) processes involve capturing carbon dioxide emissions from power generation or industrial production, transporting it and permanently storing it underground. In recent years, a growing number of governments and companies are putting significant stock in CCS to underpin their transition plans and bridge emissions gaps to reach net zero. To date, there have been a few challenges to the effectiveness of CCS despite the significant obstacles that CCS faces, including high operational costs, complex technical challenges, a myriad environmental risks and societal opposition.

In the decisive decade for decarbonisation, the prospect of CCS deployment has become a discussion of critical importance. To validate whether such capacity projections for 2050 are plausible in the Asian context, AIGCC commissioned Wood Mackenzie to assess the drivers of CCS feasibility, consisting of cost competitiveness to alternatives, policy and regulatory support and storage availability, as well as to assess the competitiveness of CCS in the power generation and steel sectors of China, India, Japan and South Korea.

A detailed cost competitiveness analysis was conducted to compare traditional options with and without CCS retrofits, and to compare CCS options with competing technologies. The outcome identifies that large-scale CCS deployment varies across different sectors and will depend on the capacity required from fossil fuel energy, the competing role of renewable energy, coupled with strength of policy support and other technologies. The report explores this in detail.

Overall, the level of CCS deployment in decarbonisation strategies raises some questions on the level of reliance to the technology and the potential risk in CCS implementation. However, with some sectors where other decarbonisation technologies are unavailable, CCS could be a probable option until competing technologies take over.

The report also explores other environmental, technical, social and policy factors influencing the feasibility of large-scale implementation.

To learn more about the report, register below to join us at the launch:

Carbon Capture and Storage in the decisive decade for decarbonisation

Date: Monday 13th December 2021

Time: 3:00 pm – 5:00 pm HKT/SGT , 4:00 pm – 6:00 pm JST/KST , 6:00 pm – 8:00 pm AEDT

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