

Submission to the COP30 Presidency Roadmaps on Transitioning Away from Fossil Fuels

The Global CCS Institute (the Institute) welcomes the invitation to contribute to the COP30 Presidency Roadmaps. Achieving an orderly and equitable transition requires the use of all scientifically proven mitigation tools, including the immediate deployment of carbon capture and storage (CCS) to decarbonise existing infrastructure and the rapid scaling of carbon dioxide removal (CDR) capabilities to offset remaining emissions. Collectively, CCS and CDR can be referred to as carbon management. Roadmaps should include carbon management as an integral climate mitigation tool and treat subsurface carbon dioxide (CO₂) storage capacity as a strategic national asset.

The most critical barriers to this transition include infrastructure lead times, fragmented policies, and cost premiums that prevent investments in low-carbon goods and services. To overcome these barriers, the Institute recommends global collaboration on carbon management including the development of robust policy mechanisms and shared infrastructure to enable investments and reduce costs. The IEA's [Financing CCUS at Scale \(2026\)](#) report identifies "cross-chain risk" between capture, transport, and storage as a primary hurdle for investments in carbon management, requiring targeted risk-sharing instruments.

Experience from the [GCCA 2050 Cement and Concrete Industry Roadmap for Net Zero Concrete](#) demonstrates that for hard-to-abate sectors, CCS is a necessity. By integrating carbon management and CO₂ storage into national roadmaps, countries can maintain and grow high-quality industrial jobs and provide energy security and economic stability while delivering on a net-zero trajectory. The Institute remains committed to providing the data and expertise necessary to ensure these roadmaps facilitate a pragmatic and ambitious global climate response.

About the Global CCS Institute

The Global CCS Institute is an international think tank focused on accelerating global CCS deployment through robust resources, including our flagship *Global Status of CCS* reports and detailed analyses on technology, policy, and UNFCCC-related content. Much of this data is available at globalccsinstitute.com, and we welcome any follow-up desired.