Decarbonization Pathways for Steel and Cement Industries – The Role and Potential of CCUS

Steel and cement emit the most industrial carbon dioxide

Ubiquitous and useful products
- Cement is the second-most-consumed product globally after drinking water.
- The steel industry is at the heart of global development and closely tied to economic growth.

High emission industries
Iron and steel production is a carbon-intensive industry responsible for about 7% of global greenhouse gas (GHG) emissions, while cement contributes another 6%.

Impact on air quality
These industries are responsible for NOx and volatile organic compound (VOC) emissions and the subsequent smog risk.

Multiple cement and steel producers are engaged in low-carbon projects accounting for 5% of current CCUS pipeline of projects mainly in Europe

Many deep decarbonization options exist at different stages of development for both the steel and cement industry

Steel and cement related CCUS large-scale project by region

Major decarbonization options for the steel industry

Major decarbonization options for the cement industry

Webinar: Is CCUS the Best Solution to Decarbonize the Steel and Cement Industries?

Discover the major opportunities and long-term challenges for this technology in these sectors. Available to watch on-demand.