



Carbon capture and storage including coal-fired power plants [

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Monografía

"Nationally-recognized studies and our contacts with a diverse group of industry representatives, nongovernmental organizations, and academic researchers show that key barriers to CCS deployment include (1) underdeveloped and costly CO₂ capture technology and (2) regulatory and legal uncertainties over CO₂ capture, injection, and storage. Among the key technological barriers are a lack of experience in capturing significant amounts of CO₂ from power plants and the significant cost of capturing CO₂, particularly from existing coal-fired power plants, which are the single largest source of CO₂ emissions in the United States. Compounding these technological issues are regulatory and legal uncertainties, including uncertainty regarding liability for CO₂ leakage and ownership of CO₂ once injected. According to the IPCC, the National Academy of Sciences, and other knowledgeable authorities, another barrier is the absence of a national strategy to control CO₂ emissions (emissions trading plan, CO₂ emissions tax, or other mandatory control of CO₂ emissions), without which the electric utility industry has little incentive to capture and store its CO₂ emissions. Moreover, according to key agency officials, the absence of a national strategy has also deterred their agencies from addressing other important practical issues, such as resolving how stored CO₂ would be treated in a future CO₂ emissions trading plan."--pub. desc

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