

Can the major of carbon storage science and engineering be subject to new policies

How can carbon-pricing improve the economic viability of CCUS technologies?

Clear carbon-pricing policies, reliable regulatory frameworks, and directed support for innovation and commercialization will therefore help to close the gap between technological advancement and economic viability. This would ensure effective and equitable deployment of CCUS technologies across the regions. 3.4.

Which technologies are not included in a carbon abatement model?

It should be noted that abatement technologies such as zero-carbon non-electric energy (e.g., hydrogen, ammonia), fuel/material and process substitution technologies and other carbon dioxide removal (CDR) technologies (e.g., direct air capture (DAC), carbon sinks), are not considered in this model.

Should new coal and gas plants be banned?

Bans on unabated new coal and gas plants are more supported than other policy measures. Although Carbon Capture and Storage (CCS) technologies can potentially play an important role in climate change mitigation efforts, commercial CCS projects are still rare.

Can biomass energy be used to eliminate CO₂?

Kraxner et al. (2003) suggested that biomass energy can be used to eliminate CO₂, the primary GHG, from the atmosphere by creating carbon-neutral energy carriers like hydrogen and electricity, as well as supplying a long-term carbon sink by capturing and storing carbon in geological formations.

Can CCS incentive policies reduce the carbon price of China's ETS?

(3) In terms of socio-economic development, the CCS incentive policies could effectively decrease the carbon price of China's ETS for achieving carbon neutrality target, thus reducing the negative impact of emission reduction on socio-economic development.

How can CCS clusters be sustainable?

Financial subsidies, tax credits and trust funds are vital for reducing initial investment costs and ensuring the long-term viability of CCS clusters 11. Additionally, the establishment of regional carbon markets for CCS credits could enable the trading of emissions reductions within and between clusters.



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