

CARBON CAPTURE, STORAGE, AND UTILIZATION

A possible climate change solution
for energy industry

Editors

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The Energy and Resources Institute



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Description

Carbon Capture and Storage (CCS) is among the advanced energy technologies suggested to make the conventional fossil fuel sources environmentally sustainable. It is of particular importance to coal-based economies.

Carbon Capture, Storage, and Utilization deals at length with the various aspects of carbon dioxide capture, its utilization and takes a closer look at the earth processes in carbon dioxide storage. It discusses potential of carbon capture, storage, and utilization as innovative energy technology towards a sustainable energy future. Various techniques of carbon dioxide recovery from power plants by physical, chemical, and biological means as well as challenges and prospects in biomimetic carbon sequestration are described. Carbon fixation potential in coal mines and in saline aquifers is also discussed.

Key Features

- Analyses how current research on carbon capture, storage, and utilization is being pursued throughout the world.
- Presents details of earth process in carbon sequestration such as saline aquifers, minerals, rocks, and coal mines.
- Describes the new cost-effective processes being developed in carbon dioxide utilization for value-added products.

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