



Carbon Capture and Storage - theoretical knowledge and experiments

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Analysis of CO₂ adsorption in different geological materials and water samples | Carbon Capture and Storage (CCS) is a technology that has a potential to considerably contribute to the reduction of CO₂ emissions. The most promising abatement option currently is geological storage of CO₂. Our review of international studies on CO₂ storage potential reveals that some tens to some hundreds of annual CO₂ emissions can be permanently stored underground worldwide. To ensure the safe geological containment of CO₂ in the subsurface, risk based monitoring and regular verification of CO₂ storage site is mandatory. In recent years regulatory framework for CO₂ storage has been developed in many countries. In order to facilitate the deployment of CCS it is vital that the benefits of CCS are acknowledged and that power plants with CCS retain economic competitiveness compared to conventional power plants. Public perception and awareness seem to be decisive factors for successful CCS implementation. Experiences and knowledge gained through the various scientific projects (pilot and demonstration tests as well as laboratory and industrial experiments) contributed to the present level of cognizance about geological storage of CO₂. | Format: Paperback | Language/Sprache: english | 96...



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