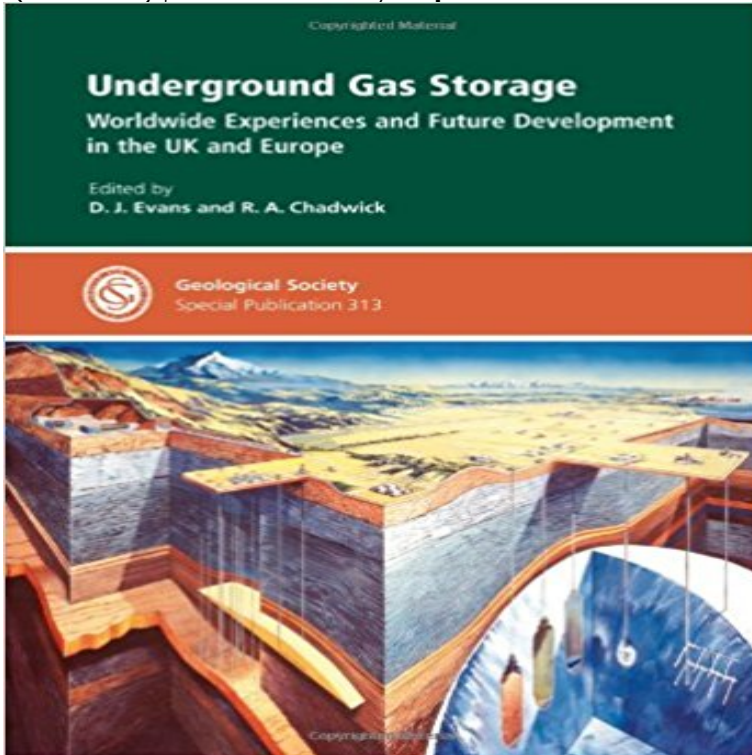


Underground Gas Storage: Worldwide Experiences and Future Development in the UK and Europe - Special Publication no 313 (Geological Society Special Publication)



The UK became a net importer of natural gas in 2004 and by 2020 will import up to 90% of its requirements, leaving it vulnerable to increasing energy bills and risk of disruption to supply. New pipelines to Europe and improvements to interconnectors will meet some demand, but Government recognises the need for increased gas storage capacity: best met by the construction of underground storage facilities. Energy security has also raised the likelihood of a new generation of coal-fired power-stations, which to be environmentally viable, will require clean-coal technologies with near-zero greenhouse gas emissions. A key element of this strategy will be underground CO₂ storage. This volume reviews the technologies and issues involved in the underground storage of natural gas and CO₂, with examples from the UK and overseas. The potential for underground storage of other gases such as hydrogen, or compressed air linked to renewable sources is also reviewed. The Geological Society of London Founded in 1807, the Geological Society of London is the oldest geological society in the world, and one of the largest publishers in the Earth sciences. The Society publishes a wide range of high-quality peer-reviewed titles for academics and professionals working in the geosciences, and enjoys an enviable international reputation for the quality of its work. The many areas in which we publish in include:-Petroleum geology-Tectonics, structural geology and geodynamics-Stratigraphy, sedimentology and paleontology-Volcanology, magmatic studies and geochemistry-Remote sensing-History of geology-Regional geology guides

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