



Developments and Innovation in Carbon Dioxide (CO₂) Capture and Storage Technology: Carbon Dioxide (Co₂) Storage and Utilisation (Woodhead Publishing Series in Energy)

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Carbon dioxide (CO₂) capture and storage (CCS) is the one advanced technology that conventional power generation cannot do without. CCS technology reduces the carbon footprint of power plants by capturing, and storing the CO₂ emissions from burning fossil-fuels and biomass. This volume provides a comprehensive reference on the state of the art research, development and demonstration of carbon storage and utilisation, covering all the storage options and their environmental impacts. It critically reviews geological, terrestrial and ocean sequestration, including enhanced oil and gas recovery, as well as other advanced concepts such as industrial utilisation, mineral carbonation, biofixation and photocatalytic reduction.

- Foreword written by Lord Oxburgh, Climate Science Peer
- Comprehensively examines the different methods of storage of carbon dioxide (CO₂) and the various concepts for utilisation
- Reviews geological sequestration of CO₂, including coverage of reservoir sealing and monitoring and modelling techniques used to verify geological sequestration of CO₂

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- Sales Rank: #9898796 in Books
- Brand: Brand: Woodhead Publishing
- Published on: 2010-07-27
- Original language: English
- Number of items: 1
- Dimensions: 9.44" h x 1.63" w x 6.40" l, 2.04 pounds
- Binding: Hardcover
- 544 pages

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Editorial Review

Review

The development of CCS worldwide must go ahead at a pace unprecedented in large-scale technology investment and that needs unprecedented levels of knowledge transfer. This book makes a significant contribution., Dr Jeff Chapman, The Carbon Capture & Storage Association, UK

About the Author

Professor M. M. Maroto-Valer holds the Robert M. Buchan Chair in Sustainable Energy Engineering and is Head of the Institute of Mechanical, Process and Energy Engineering (IMPEE), School of Engineering & Physical Sciences, Heriot-Watt University, UK. She is noted for her research into energy and environmental technologies, with particular emphasis on carbon management.

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