



Developments and Innovation in Carbon Dioxide (CO2) Capture and Storage Technology: Carbon Dioxide (Co2) Capture, Transport and Industrial Applications: 1 (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 capture technology in the power sector and in industry. It critically reviews the range of post- and pre-combustion capture and combustion-based capture processes and technology applicable to fossil-fuel power plants, as well as applications of CCS in other high carbon footprint industries.

- Foreword written by Lord Oxburgh, Climate Science Peer
- Reviews the economics, regulation and planning of carbon capture and storage for power plants and industry
- Explores developments in combustion processes and technologies for CO₂ capture in power plants

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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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