

Wilhelm Kuckshinrichs  
Jürgen-Friedrich Hake *Editors*

# Carbon Capture, Storage and Use

Technical, Economic, Environmental and  
Societal Perspectives

 Springer

# Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives

**Wilhelm Kuckshinrichs, Jürgen-  
Friedrich Hake**



## **Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives:**

Carbon Capture, Storage and Use Wilhelm Kuckshinrichs, Jürgen-Friedrich Hake, 2014-11-17 Carbon Capture and Storage technologies CCS are moving from experiment toward commercial applications at a rapid pace driven by urgent demand for carbon mitigation strategies This book examines the potential role of CCS from four perspectives technology development economic competitiveness environmental and safety impacts and social acceptance IEK STE of Forschungszentrum Juelich presents this interdisciplinary study on CCS based on methods of Integrated Technology Assessment Following an introductory chapter by editor Wilhelm Kuckshinrichs Part I of the book surveys the status of carbon capture technologies and assesses the potential for research and development of applications that are useful at scales required for meaningful mitigation Transportation Utilization and Environmental Aspects of CO<sub>2</sub> receive chapter length treatments and the section concludes with an examination of safe geological storage of CO<sub>2</sub> based on the example of the Ketzin pilot site not far from Berlin Part II covers Economic and Societal Perspectives The first chapter discusses the use of CCS in the energy sector analyzing costs associated with electricity generation and CO<sub>2</sub> mitigation on the basis of technology specific cost and process parameters along with a merit order illustration of the possible implications of CCS facilities for energy costs Later chapters outline the costs of CCS application in energy and CO<sub>2</sub> intensive industries analyze system characteristics of CCS infrastructures showing that the infrastructure cost function depends on the ratio of fixed to variable costs as well as on the spatial distribution of CO<sub>2</sub> sources and storage facilities interpret cross sector carbon mitigation strategies and their impacts on the energy and CO<sub>2</sub> balance and discuss awareness and knowledge of CCS attitudes towards it and how the risks and benefits of CCS are perceived Part III discusses the Framework for Energy and Climate Policy with chapters on acceptance and adoption of CCS policy in Germany and the EU and an assessment of international cooperation in support of CCS The final chapter summarizes the central arguments discusses the potential role of carbon capture and utilization as part of a German transformation strategy and extrapolates the findings to European and international contexts *Carbon Capture Utilization and Storage* Eduardo G. Pereira, Alberto J. Fossa, Thomas L. Muinzer, 2025-03-29 This book delves into how carbon capture utilization and storage CCUS technologies might help accelerate the worldwide transition to sustainable energy while meeting Paris Agreement targets This comprehensive handbook examines how governments businesses and society may effectively implement CCUS programs to cut carbon emissions and promote economic development The book begins with basic ideas and exposes readers to CCUS technologies and their critical role in reaching net zero emissions by 2050 It investigates successful CCUS installations from various countries and suggests prospects for host governments and energy firms The book combines technical innovation and carbon neutrality initiatives while also addressing regulatory frameworks and normative factors that are critical for wider acceptance With climate change mitigation at its core the book offers pragmatic recommendations for policymakers and industry leaders on how to employ CCUS for sustainable development

making it a valuable resource for environmental researchers energy professionals and policymakers working toward a low carbon economy

**Carbon Capture-Utilization and Storage** Jayarama Reddy Puthalpet,2024-07-20 In Carbon Capture Utilization and Storage Climate Change Mitigation the urgent battle against climate change takes center stage as the world grapples with the pressing need to reduce anthropogenic carbon dioxide emissions Delving into the intricate science behind Carbon Capture Utilization and Storage CCUS this book navigates the complex landscape of strategies aimed at trapping emitted CO2 and preventing its release into the atmosphere From post combustion to pre combustion methods readers are immersed in a world where cutting edge technologies intersect with environmental necessity As the global community strives to honor the mandates of the Paris Agreement the author explores the potential of CCUS to pave the way for a carbon neutral future Despite challenges surrounding cost and commercial viability a glimmer of hope emerges as integrated CCUS systems gain traction around the world From the United States to China these systems offer a glimpse into a future where carbon capture and utilization become integral components of sustainable energy production With a focus on clarity and accessibility this book aims to educate undergraduates researchers and policymakers alike on the vital role CCUS plays in the fight against climate change For those seeking a comprehensive understanding of this pivotal technology Carbon Capture Utilization and Storage serves as an indispensable guide into the realm of environmental stewardship and innovation

**Carbon Capture and Storage in International Energy Policy and Law** Hirdan Katarina de Medeiros Costa,Carolina Arlota,2021-10-13 Carbon Capture and Storage in International Energy Policy and Law identifies the main contemporary regulatory requirements challenges and opportunities involving CCS from a comparative and interdisciplinary perspective It draws on the scholarship of renowned researchers across the fields of international energy law and policy to address CCS regulation and its impact on climate change sustainable development and related consequences for energy transition In this vein the book aims to address issues related to energy energy justice and climate changes including CCS technology Contributors discuss the main challenges and advantages concerning international energy and the forms CCS may contribute to energy security climate change adaptation and mitigation of GHG emissions and sustainable development In this light the book discusses CCS as a bridge that integrates international energy climate change and sustainable development Covers contemporary regulatory command and control and market incentive instruments across the local regional and or international spheres in depth and in comparison Reviews deregulatory impacts modern financing of CCS liability of the involved parties and pertinent environmental issues Addresses sociotechnical aspects of CCS and its specific impact on the international arena Discusses the interplay of carbon capture and storage renewables and the overall energy transition current pathways to sustainable development

**Governing Carbon Dioxide Removal** Rob Bellamy,Oliver Geden,Mathias Fridahl,Emily Cox,James Palmer,2022-01-24

**Supply Chain** Ágota Bányai,2024-02-21 The design and operation of different supply chains and logistics networks is a significant part of today s economy Production and service companies and

logistics service providers must improve their systems and processes to strengthen the value chain and support cost efficiency availability flexibility efficiency sustainability and transparency This book offers a selection of chapters that explain the different aspects of the design and operation of supply chain solutions The book is designed to help students at all levels as well as managers and researchers to understand and appreciate the concept design and implementation of supply chain solutions

**Shale Gas, the Environment and Energy Security** Ruven Fleming,2017-09-29 This pioneering and in depth study into the regulation of shale gas extraction examines how changes in the constitutional set ups of EU Member States over the last 25 years have substantially altered the legal leverage of environmental protection and energy security as state objectives As well as offering the first formal assessment of the legality of fracking bans and moratoria Ruven Fleming further proposes a new methodology for the development of legally sound regulation of new energy technologies in the context of the energy transition *Enabling Secure Subsurface Storage in Future Energy Systems* J.M. Miocic,N.

Heinemann,K. Edlmann,J. Alcalde,R.A. Schultz,2023-08-31 The secure storage of energy and carbon dioxide in subsurface geological formations plays a crucial role in transitioning to a low carbon energy system The suitability and security of subsurface storage sites rely on the geological and hydraulic properties of the reservoir and confining units Additionally their ability to withstand varying thermal mechanical hydraulic biological and chemical conditions during storage operations is essential Each subsurface storage technology has distinct geological requirements and faces specific economic logistical public and scientific challenges As a result certain sites can be better suited than others for specific low carbon energy applications This Special Publication provides a summary of the state of the art in subsurface energy and carbon dioxide storage It includes 20 case studies that offer insights into site selection characterization of reservoir processes the role of caprocks and fault seals as well as monitoring and risk assessment needs for subsurface storage operations **Carbon**

**Capture and Storage** King Abdullah Petroleum Studies,Saud M. Al-Fattah,Murad F. Barghouty,Bashir O. Dabbousi,2011-11-02 This book focuses on issues related to a suite of technologies known asCarbon Capture and Storage CCS which can be used to capture and store underground large amounts of industrial CO2 emissions It addresses how CCS should work as well as where why and how these technologies should be deployed emphasizing the gaps to be filled in terms

o **Carbon dioxide removal: Perspectives from the social sciences and humanities** Anders Hansson,Mathias Fridahl,Miranda Boettcher,Shinichiro Asayama,2024-07-09 Carbon dioxide removal CDR approaches are becoming increasingly central to visions of decarbonizing national economies The past few years have seen an increasing number of countries committed to net zero targets preceded by a surge of modelled 1.5 C scenarios envisioning large scale future CDR deployment The prospect of CDR deployment raises new complex socio ecological challenges and presents new deep uncertainties These complexities challenges and uncertainties cannot be investigated using solely the techno economic modelling and environmental risk assessment methods that currently dominate the construction of policy relevant knowledge

on CDR Social sciences and the humanities perspectives on CDR are often restricted to instrumental tasks such as investigating public acceptance overcoming social resistance or supporting the development of integrated assessment models There is a need for more diverse investigations of CDR which include not only environmental and techno economic dimensions but also explore key societal complexities challenges and uncertainties Against this backdrop we call for submissions on CDR stemming from perspectives within the social sciences and humanities We encourage novel empirical and theoretical contributions on CDR related policy design or analyses of recent policy developments at sub national national and international levels of governance e g in context of climate targets and strategies climate tipping points mitigation deterrence or societal transformations

**Emerging Technologies** Sinan Küfeoğlu,2022-07-11 This monograph investigates a multitude of emerging technologies including 3D printing 5G blockchain and many more to assess their potential for use to further humanity s shared goal of sustainable development Through case studies detailing how these technologies are already being used at companies worldwide author Sinan K feo lu explores how emerging technologies can be used to enhance progress toward each of the seventeen United Nations Sustainable Development Goals and to guarantee economic growth even in the face of challenges such as climate change To assemble this book the author explored the business models of 650 companies in order to demonstrate how innovations can be converted into value to support sustainable development To ensure practical application only technologies currently on the market and in use actual companies were investigated This volume will be of great use to academics policymakers innovators at the forefront of green business and anyone else who is interested in novel and innovative business models and how they could help to achieve the Sustainable Development Goals This is an open access book

*EDUCATION FOR SUSTAINABLE DEVELOPMENT: PERSPECTIVES AND PRACTICES* Prof. (Dr.) Jubraj Khamari,Dr. Pranay Pandey,Prof. (Dr.) Pragyan Mohanty,Dr. Aniruddha Saha,2024-08-25 Education for Sustainable Development ESD has emerged as a critical framework for addressing global challenges in the 21st century As we navigate complex environmental social and economic issues the role of education in fostering sustainable practices becomes increasingly paramount This edited volume Education for Sustainable Development Perspectives and Practices seeks to illuminate the multifaceted nature of ESD through diverse perspectives and practical examples from around the world

*The Social Dynamics of Carbon Capture and Storage* Nils Markusson,Simon Shackley,Benjamin Evar,2012-05-04 Carbon capture and storage CCS has emerged rapidly as a crucial technological option for decarbonising electricity supply and mitigating climate change Great hopes are being pinned on this new technology but it is also facing growing scepticism and criticism This book is the first to bring together the full range of social and policy issues surrounding CCS shedding new light on this potentially vital technology and its future The book covers many crucial topics including the roles and positions that different publics NGOs industry political parties and media are taking up the way CCS is organised supported and regulated how CCS is being debated and judged how innovation demonstration and learning

are occurring and being conceptualised and promoted and the role of CCS in the transition to a low carbon energy future The authors draw on a variety of approaches concepts methods and themes and provide a new understanding of innovation in the energy and climate change fields It tackles the many issues in a way that speaks to those concerned not only to understand these developments but to those who are involved in the scientific and technological work itself as well as those charged with evaluating and making decisions relevant to the future of the technology

*Principles of Petroleum Geoscience* Ashok Vaidya,2025-02-20 *Principles of Petroleum Geoscience* offers a comprehensive exploration of essential concepts and methodologies in the field Authored by experts we bridge geology geophysics engineering and environmental science providing an interdisciplinary perspective Our topics span sedimentary basin analysis reservoir characterization seismic interpretation and well logging along with the latest advancements in research and technology We present real world examples and case studies to illustrate practical applications in petroleum exploration and production helping readers grasp complex ideas through practical insights With up to date content this resource is invaluable for students researchers and professionals in petroleum geoscience equipping them to meet modern challenges in hydrocarbon exploration and development

*Handbook on Climate Change and Technology* Frauke Urban,Johan Nordensvärd,2023-12-11 This timely Handbook presents the latest knowledge on technological innovation for climate change mitigation and adaptation Looking beyond technical fixes it further draws on economics politics and sociology to explore how modern technology can contribute to effective and socially just sustainability transitions

Including Consumption in Emissions Trading Manuel W. Haussner,2021-03-26 This timely book addresses the need for further measures to reduce greenhouse gas emissions in the European Union arguing that the EU Emissions Trading Scheme does not offer sufficient incentives for the carbon intensive materials sector It highlights the challenge that emissions from industries such as iron and steel cement and aluminium amongst others pose to the EU s commitment to significantly cut emissions by 2030

*Proceedings of the 3rd International Conference on Building Innovations* Volodymyr Onyshchenko,Gulchokra Mammadova,Svitlana Sivitska,Akif Gasimov,2021-09-22 This book gathers the latest advances innovations and applications in the field of building design and construction by focusing on new design solutions for buildings and new technologies creation for construction as presented by researchers and engineers at the 3rd International Conference Building Innovations ICBI held in Poltava Baku Ukraine Azerbaijan on June 1 2 2020 It covers highly diverse topics including structures operation repairing and thermal modernization in existing buildings and urban planning features machines and mechanisms for construction as well as efficient economy and energy conservation issues in construction The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations

*Modern Regulations and Practices for Social and Environmental Accounting* Eugénio, Teresa,Azevedo, Graça,Fialho, Ana,2022-04-08 There has been an increased interest in social and environmental

issues in recent years as more consideration is given to the idea of sustainability and social accounting Social accounting can be considered a straightforward manifestation of corporate enforcement to legitimize explain and justify the organization s activities or an ethically desirable component of any well functioning democracy Social accounting can also include environmental accounting which is focused on environmental issues Additional study is required to better understand the relevancy of social and environmental accounting in today s modern business world Modern Regulations and Practices for Social and Environmental Accounting discusses social and environmental accounting and considers regulations norms organizational practices and the challenges of education Covering a range of topics such as non financial reporting and corporate social responsibility this reference work is ideal for industry professionals researchers academicians managers practitioners instructors and students

**Principles of Environmental Economics and Sustainability** Ahmed Husen,2018-07-17 Principles of Environmental Economics and Sustainability was the first textbook to make a serious attempt to systematically integrate ecological and economic principles It successfully introduced ecological perspectives to the study of environmental economics while maintaining the integrity of the standard economic approach In this new edition this notion continues to be embraced while also offering readers several further features including greater in depth coverage of the economics of climate change expanded reference sections and an updated and expanded review and discussion questions section The unique integration of both mainstream and ecological approaches which this textbook provides proves particularly illuminating in relation to the following topics economics of climate change environmental valuation cost benefit analysis and the environment sustainability in theory and practice limits to growth the role of technology the business case for environmental sustainability Written in a clear and accessible way this key textbook is an excellent resource for all students of environmental economics With study tools including learning objectives case studies and charts and graphs this volume uses real world examples to engage both students and academics within the field This text also accompanied by a Companion Website including resources for both students and instructors Here you will find student study questions interactive quizzes and an instructor manual composed of lecture PowerPoint templates

**East Asian Low-Carbon Community** Weisheng Zhou,Xuepeng Qian,Ken'ichi Nakagami,2021-02-04 This book presents new vision of regional de carbonization with concrete scheme design and substantial quantitative demonstration from original interdisciplinary studies It provides new horizon for not only climate change environmental conservation but also for international cooperation and peace in East Asia The chapters introduce diverse low carbon society principles from local to global level with best practices integrating technology evolution and social innovation While the book is designated for academics and the ultimate goal is to facilitate international climate regime making and environmental cooperation local government and international organizations United Nations World Bank and others officers researchers international NGO NPOs consultants students particularly those studying environmental policy studies or international relationships as well as reporters will find this book

useful in broadening their understanding of low carbon development in East Asia

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## **Table of Contents Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives**

1. Understanding the eBook Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
  - The Rise of Digital Reading Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
  - Advantages of eBooks Over Traditional Books
2. Identifying Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
  - User-Friendly Interface

## **Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives**

---

4. Exploring eBook Recommendations from Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
  - Personalized Recommendations
  - Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives User Reviews and Ratings
  - Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives and Bestseller Lists
5. Accessing Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives Free and Paid eBooks
  - Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives Public Domain eBooks
  - Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives eBook Subscription Services
  - Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives Budget-Friendly Options
6. Navigating Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives eBook Formats
  - ePub, PDF, MOBI, and More
  - Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives Compatibility with Devices
  - Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
  - Highlighting and Note-Taking Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
  - Interactive Elements Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
8. Staying Engaged with Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives

## **Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives**

---

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
9. Balancing eBooks and Physical Books Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
- Setting Reading Goals Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
- Fact-Checking eBook Content of Carbon Capture Storage And Use Technical Economic Environmental And Societal Perspectives
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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