

Unlocking the Potential: Opportunities, Issues, and Challenges for Recovery and Utilization of Resources - A SpringerBriefs Analysis

In today's world, where resource scarcity and environmental concerns are increasingly important, finding innovative approaches for recovery and utilization of resources has become crucial. SpringerBriefs, a series of concise publications addressing a wide range of topics, presents a thought-provoking analysis on the opportunities, issues, and challenges surrounding resource recovery and utilization.

Understanding the Importance of Resource Recovery

Resource recovery refers to the process of extracting valuable materials or energy from waste or other by-products that would otherwise be discarded. With a growing global population, depleting natural resources, and escalating environmental challenges, resource recovery offers a promising solution to minimize waste and create a more sustainable future.

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ENERGY SOURCES

PART A: RECOVERY, UTILIZATION,
AND ENVIRONMENTAL EFFECTS



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Coalbed Methane in India: Opportunities, Issues and Challenges for Recovery and Utilization (SpringerBriefs in Energy)

by Albert E. Dien (1st ed. 2018 Edition, Kindle Edition)

★★★★☆ 4.6 out of 5

Language : English

File size : 2359 KB

Text-to-Speech : Enabled

Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 169 pages



The Opportunities for Resource Recovery

SpringerBriefs shed light on a wide array of opportunities in resource recovery. From traditional methods like recycling and composting to cutting-edge technologies such as anaerobic digestion and thermal conversion, this comprehensive analysis explores the potential in maximizing resource recovery.

One of the key opportunities lies in the recovery of valuable materials from electronic waste. With the rapid advancement of technology, electronic waste has become a significant issue globally. SpringerBriefs discusses how innovative techniques can extract precious metals and other valuable materials from electronic waste, reducing environmental impact while also promoting a circular economy.

Another opportunity highlighted in the analysis is the utilization of organic waste for energy generation. SpringerBriefs delve into the potential of anaerobic digestion, a biological process that converts organic waste into biogas for electricity and heat production. This not only reduces methane emissions from organic waste but also provides a renewable energy source.

The Issues and Challenges in Resource Recovery

While resource recovery presents significant opportunities, it is not without its challenges. SpringerBriefs provide a comprehensive exploration of the issues

surrounding resource recovery, emphasizing the need for innovative solutions and systemic changes.

One of the challenges discussed is the lack of proper infrastructure and technologies for effective resource recovery. Implementing a comprehensive resource recovery system requires high capital investment, advanced technologies, and efficient infrastructure. SpringerBriefs identify these challenges and offer potential solutions to overcome them.

Moreover, there are regulatory and policy barriers that hinder the widespread adoption of resource recovery practices. Different countries have varying regulations regarding waste management and resource recovery, making it challenging to create a standardized approach. SpringerBriefs aims to address these barriers and identify strategies to foster a supportive legislative framework.

The Role of SpringerBriefs in Shaping Resource Recovery

As the world faces mounting resource challenges, the role of scientific research and knowledge dissemination becomes crucial. SpringerBriefs fill this gap by providing concise yet comprehensive analyses on resource recovery and utilization.

By offering a platform for both researchers and practitioners, SpringerBriefs enable the sharing of ideas, methodologies, and technological advancements in resource recovery. This collective effort plays a crucial role in driving innovation, informing policy decisions, and promoting sustainable development.

SpringerBriefs on opportunities, issues, and challenges for recovery and utilization provide a valuable resource for professionals, researchers, and policymakers seeking to make a positive impact in the field of resource recovery. By exploring various avenues for recovering valuable resources and discussing

the hurdles that need to be overcome, SpringerBriefs inspire solutions that can contribute to a more sustainable and resource-efficient future.



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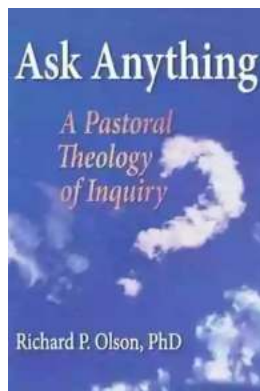
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This book offers a first-of-its-kind, standalone review of coalbed methane (CBM) in India, covering all the major technical and policy aspects. As an authoritative text on CBM in India, it addresses the essential geological, engineering and policy issues. The Coalbed Methane industry is a rapidly developing sector in Indian energy supply. The book presents the characteristics of coal beds in India's Damodar and Son river valleys, which influence the commercial viability of CBM in the regions, as well as a study of the gas contents of the country's major coalfields.

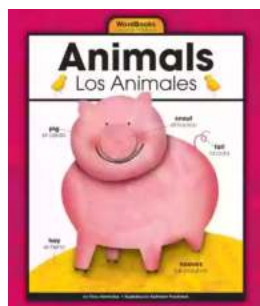
The book begins with a brief review of methane emissions from Indian coal mines and the current coalbed methane situation in the country. Its unique features include a coalfield-by-coalfield technical assessment of CBM throughout India. Policy matters are addressed, including the National Exploration Licencing Policy

(NELP) of the Indian Government Ministry of Petroleum and Natural Gas, which is vital to an overall understanding of CBM development in the country. The scope and depth of its book's coverage will benefit students, practising engineers, researchers and policy-makers.



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