

Alternative Energy and Shale Gas Encyclopedia

Edited by
Jay H. Lehr and Jack Keeley



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Alternative Energy and Shale Gas Encyclopedia Jay H. Lehr, Jack Keeley, 2016-04-20 A comprehensive depository of all information relating to the scientific and technological aspects of Shale Gas and Alternative Energy Conveniently arranged by energy type including Shale Gas Wind Geothermal Solar and Hydropower Perfect first stop reference for any scientist engineer or student looking for practical and applied energy information Emphasizes practical applications of existing technologies from design and maintenance to operating and troubleshooting of energy systems and equipment Features concise yet complete entries making it easy for users to find the required information quickly without the need to search through long articles

Circular Economy and Sustainable Development Alexandros I. Stefanakis, Ioannis E. Nikolaou, 2024-10-22 This book will highlight the role of CE in the sustainability field as it is expressed in the various fields and disciplines and its contribution to building a sustainable society by providing a better understanding of the relevant social and cultural structures and the need for cross disciplinary knowledge and diverse skills Such an integrated approach which combines the concept of sustainability in the engineering field to create a CE has not yet been presented in detail in the published literature and there are only scattered studies covering only small parts of this holistic approach Hence this book will represent a single reference that will provide summarized information and state of the art knowledge on this topic of the future The book will include chapters showcasing investigating the relation between circular economy principles and their realization in different engineering fields This includes theoretical justification research studies and full scale case studies The approach focuses on two distinct levels macro and micro on both production and consumption sides

Inequality and Uneven Development in the Post-Crisis World Sebastiano Fadda, Pasquale Tridico, 2017-07-14 In the years following the financial crash two issues have become central to the debate in economics inequality and the uneven nature of sustainable development These two issues are at the core of this book which aims to explain three key questions why inequality has increased so much in the last three decades why most advanced economies are stagnating or are experiencing moderate economic growth and why even where economic growth is occurring the quality of that growth is questioned Inequality and Uneven Development in the Post Crisis World is divided into three parts The first part concerns the theoretical aspects of inequality and ethical issues regarding economics and equality The second part explores empirical evidence and policy suggestions drawing on the uneven levels of development and unprecedented levels of inequality experienced among advanced economies in the context of global financial capitalism The third part focuses on sustainable development issues such as full employment social costs of global trade liberalization environmental sustainability and ecological issues Along with inequality these issues are central for capitalism and for economic development This volume is of interest to those who study political economy sustainable development and social inequality

Risk Allocation and Distributive Justice in the Energy Industry Smith I Azubuike, 2024-09-30 Brings the concept of gross negligence to the fore and highlights how

distributive justice forms a better foundation for risk allocation in the offshore energy industry Assessed the practice of risk allocation in gross negligence cases in offshore petroleum drilling contracts Presented a public policy perspective on risk allocation in offshore drilling contracts Discussed gross negligence as a sui generis risk and provides a definitional pathway for determining when gross negligence has occurred and how it should apply to offshore energy drilling contracts to encourage a pollution free drilling operation Advanced the concept of distributive justice as a basis for risk allocation between participants when a downside arises due to gross negligence This book examines the practice of risk allocation in the offshore energy industry through the public policy lens and offers a novel perspective on the concept of gross negligence in risk allocation This perspective is founded on the proportionality element of distributive justice in burden distribution The assessment of how mutual indemnity clauses apply as an absolute shield against liability arising from gross negligence reveals that moral hazard can result from the practice In the analysis this book considers the risk allocation practice in PSC and Concession regimes and how parties liability is determined in drilling contracts This book considers gross negligence a sui generis risk and provides a definitional pathway for determining when gross negligence occurs and how it should apply to offshore drilling contracts Thus it advances an environmental sustainability approach to offshore petroleum drilling operations This book will be useful to operators and contractors resource rich countries insurance companies practitioners scholars and academics interested in risk allocation in the petroleum industry **Dams in Brazil** Guillaume Leturcq, 2018-08-30

The book focuses on the human and social effects of the construction of hydroelectric dams in Brazil It discusses themes such as forced migrations how the families of the victims of the dams adapt to new living areas the struggle of families with the relocation of their homes and the fact that they are neglected by builders and government These discussions are carried out in a comparative perspective between Southern and Northern Brazil where contexts and living conditions are quite different The book s main objective is to analyze the movements adaptations and life changes in families suffering from the effects of dams throughout Brazil This is the first book that analyzes the relationship dam space with the intent to understand how dams affect the territory The book is organized in three chapters the dams effects in Brazil and the territorial impacts human and social consequences of dam construction a regional comparison of the effects of dams between the South and the North of the country **Engineering Reality** Cornelia Helmcke, 2023-09-22

Engineering Reality offers unprecedented insights into the power of environmental impact assessments in engineering a reality favourable to any investment focusing on the highly contested environmental study of a large hydroelectric dam project in southern Colombia El Quimbo The inclusion of environmental impact assessments to project proposals of environmental influence has been an undeniably important step to environmental governance in many countries around the world Regarding the science behind these studies as objective and their results as the closest in representing reality however is misleading Many activists and scholars made it their mission to uncover the limitations and work towards filling the gaps Participation processes are

considered key to any successful evaluation but local knowledges and alternative perspectives are still often disqualified through more widely accepted scientific methods. *Engineering Reality* systematically walks through and accounts for the shortcomings and injustices associated with environmental monitoring. It compares the reality as presented in the dam's environmental impact study with first hand accounts from the local and affected populations and observations gathered through two periods of fieldwork in 2012 before and 2016-17 after the dam started operating. It explores how the knowledge of the study was used politically and to what end. Bringing the findings in conversation with the wider environmental impact assessment literature, the book proposes a new framework to assess energy projects: *Energy Data Justice*, that regards the environmental impact assessment a strictly political tool aimed at reaching the just energy transition in Colombia and worldwide.

Economics and Policy of Energy and Environmental Sustainability Narendra N. Dalei, Anshuman Gupta, 2022-11-23. This book explores the linkages among economic development, energy, and environment. An increase in economic activity is correlated with a higher level of energy consumption, which in turn leads to an increase in environmental pollution. Due to the influence of greenhouse gases, the higher the concentration of pollutants in the atmosphere, the higher the temperature, which ultimately leads to climate change. Under these imminent dangers, the role of economic and energy efficiency policies becomes important for ecological sustainability. The present policies, however, in various instances have failed to address these issues. Hence, this book embarks not only to suggest modifications to improve the efficacy of the current policies but also to recommend to the policymakers new and more effective policies for their respective countries. The book is bifurcated into two sections. The *Economics and Policy of Sustainable Energy* section discusses renewable energy policy responses to observed impact of climate change using the DPSIR Framework, the energy utilization strategies for transportation and commercial activities of Charland, Bangladesh, the relationship of market globalization with the Indian energy sector, the socioecological effects of globalization from an energy perspective, brought to a local standpoint, the seasonal disaster-induced energy consumption strategies of the char dwellers of Bangladesh with respect to their domestic chores and agricultural activities, trends in GDP growth and energy usage in India, cross-border trade of electricity, and the events that the oil and gas industry has already faced and possible strategies it can adopt to overcome the recession caused by the COVID-19 pandemic. The *Economics and Policy of Environmental Sustainability* section analyses topics such as the role of hyper-globalization in spreading the pandemic across countries as a threat to human ecology, the current scenario of environmental consequences and future prospects of plastic pollution, the surface air temperature anomalies over selected countries of Africa, the impaired roles of the female gender in community natural resource exploitation in India, the operational expansion strategies for garnering better output in terms of livelihood and conservation opportunity for environmental justice, and rethinking global community linking indigenous traditional knowledge and sustainable development goals in the North Western Himalayas and recommendations to manage dry forest carbon stock. This book is a

rich resource for policymakers guiding them through untraveled pathways Moreover it is an extremely helpful resource for researchers practitioners industry professionals as well as students in the fields of energy environment and sustainable development with flavour of economics and policy

Rethinking Sustainable Development in Terms of Justice Lorena Martínez Hernández, Daniel Iglesias Márquez, Beatriz Felipe Pérez, 2019-01-29 The need to reassess the discourse of sustainable development in terms of equity and justice has grown rapidly in the last decade This book explores renewed and distinctive approaches to the sustainability and justice debate integrating a range of perspectives that include moral philosophy sociology and law By bringing together young and senior scholars from the field of global environmental law and governance from around the world this work is divided into three sections covering sustainable development and justice sustainable development in context and sustainable development and judiciaries This book will appeal to academics law practitioners and policy makers interested in shaping future socio legal research on global environmental law and governance

Catalysis for Clean Energy and Environmental Sustainability K. K. Pant, Sanjay Kumar Gupta, Ejaz Ahmad, 2021-04-01 This book is part of a two volume work that offers a unique blend of information on realistic evaluations of catalyst based synthesis processes using green chemistry principles and the environmental sustainability applications of such processes for biomass conversion refining and petrochemical production The volumes provide a comprehensive resource of state of the art technologies and green chemistry methodologies from researchers academics and chemical and manufacturing industrial scientists The work will be of interest to professors researchers and practitioners in clean energy catalysis green chemistry chemical engineering and manufacturing and environmental sustainability This volume focuses on catalyst synthesis and green chemistry applications for petrochemical and refining processes While most books on the subject focus on catalyst use for conventional crude fuel oriented refineries this book emphasizes recent transitions to petrochemical refineries with the goal of evaluating how green chemistry applications can produce clean energy through petrochemical industrial means The majority of the chapters are contributed by industrial researchers and technicians and address various petrochemical processes including hydrotreating hydrocracking flue gas treatment and isomerization catalysts

Current Trends and Future Developments on (Bio-) Membranes Angelo Basile, Giuseppe Spazzafumo, 2020-03-05 *Current Trends and Future Developments in Bio Membranes Cogeneration Systems and Membrane Technology* offers an exhaustive overview of the status of cogeneration systems as they relate to advanced membrane technologies for energy savings The different options for cogeneration are analyzed both for large district and small residential size units with different primary fuels Energy efficiency is reported and lifecycle analysis is carried out for all different options The book outlines strategies for engineering development and process intensification of interest to both industrial and developing countries Finally the book includes three chapters on lifecycle analysis LCA and economic analysis Provides an overview of the interconnections between membrane technology and the systems used for the cogeneration of electricity such as exhaust

gas cleaning carbon capture and sequestration and low temperature fuel cells Includes two different studies on LCA and a case study on economic analysis Presents comprehensive reviews on various traditional cogeneration systems and compares them to alternative membrane based technologies Covers membrane based technologies and their application in cogeneration systems Addresses key issues on the introduction of process intensification in energy production Hydropower in Authoritarian Brazil Matthew P. Johnson,2024-06-27 This timely examination of hydropower in Brazil brings nuance to energy debates centring social and environmental justice **A Review of Alternate Energy Sources** Thomas H. May,Wayne R. Kube,1974 *Handbook of Chemical Technology and Pollution Control* Martin B. B. Hocking,2013-10-22 Handbook of Chemical Technology and Pollution Control integrates industrial chemistry with pollution control and environmental chemistry This unified approach provides practicing professionals and consultants with a concise yet authoritative handbook covering the Key Features relative importance and environmental impact of currently operating chemical processes It also meets the critical needs of students training for industrial careers Handbook of Chemical Technology and Pollution Control considers community municipal power generation industrial and transportation components of environmental impact The book covers the major inorganic and organic commodity chemicals aluminum iron and steel and copper production pulp and paper fermentation petroleum production and refining It also includes key topics and process details for major peterochemicals and large scale consumer and engineering polymers This single convenient volume describes aspects of recycling at the industrial and post consumer levels and emphasizes a quantitative approach as used in the author s well known lifecycle work with disposable and reusable cups 0 12 350811 8Key Features Covers historical background and new developments in a single authoritative handbook Presents integrated treatment of chemical technology with emission control chemistry Includes tables throughout that give current and trend data Considers community municipal power generation industrial and transportation components of environmental impact Provides many references to further reading Contains review questions that offer working experience with the information and concepts

Encyclopedia of Renewable Energy, Sustainability and the Environment ,2024-08-09 Encyclopedia of Renewable Energy Sustainability and the Environment Four Volume Set comprehensively covers all renewable energy resources including wind solar hydro biomass geothermal energy and nuclear power to name a few In addition to covering the breadth of renewable energy resources at a fundamental level this encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental economic and policy standpoints This book will serve as an ideal introduction to any renewable energy source for students while also allowing them to learn about a topic in more depth and explore related topics all in a single resource Instructors researchers and industry professionals will also benefit from this comprehensive reference Covers all renewable energy technologies in one comprehensive resource Details renewable energies processes from production to utilization in a single encyclopedia Organizes topics into concise consistently

formatted chapters perfect for readers who are new to the field Assesses economic challenges faced to implement each type of renewable energy Addresses the challenges of replacing fossil fuels with renewables and covers the environmental impacts of each renewable energy Life Cycle Assessment of Renewable Energy Sources Anoop Singh,Deepak Pant,Stig Irving Olsen,2013-09-02 Governments are setting challenging targets to increase the production of energy and transport fuel from sustainable sources The emphasis is increasingly on renewable sources including wind solar geothermal biomass based biofuel photovoltaics or energy recovery from waste What are the environmental consequences of adopting these other sources How do these various sources compare to each other Life Cycle Assessment of Renewable Energy Sources tries to answer these questions based on the universally adopted method of Life Cycle Assessment LCA This book introduces the concept and importance of LCA in the framework of renewable energy sources and discusses the key issues in conducting their LCA This is followed by an in depth discussion of LCA for some of the most common bioenergy sources such as agricultural production systems for biogas and bioethanol biogas from grass biodiesel from palm oil biodiesel from used cooking oil and animal fat Jatropha biodiesel lignocellulosic bioethanol ethanol from cassava and sugarcane molasses residential photovoltaic systems wind energy microalgal biodiesel biohydrogen and biomethane Through real examples the versatility of LCA is well emphasized Written by experts all over the globe the book is a cornucopia of information on LCA of bioenergy systems and provides a platform for stimulation of new ideas and thoughts The book is targeted at practitioners of LCA and will become a useful tool for researchers working on different aspects of bioenergy **The Combustion of Solid Fuels and Wastes** David Tillman,2012-12-02 Careful organization and empirical correlations help clarify the prodigious technical information presented in this useful reference Written for practicing engineers this comprehensive book supplies an overall framework of the combustion process It connects information on specific reactions and reaction sequences with current applications and hardware Each major group of combustion solids is evaluated Among the many topics covered are Various biomass forms The coalification process Grate kiln and suspension firing Fluidized bed combustion Gasification of solids The manufacturing process *Energy and the New Reality 1* Danny Harvey,2010-08-12 Reducing and managing humanity s demand for energy is a fundamental part of the effort to mitigate climate change In this the most comprehensive textbook ever written on the subject L D Danny Harvey lays out the theory and practice of how things must change if we are to meet our energy needs sustainably The book begins with a succinct summary of the scientific basis for concern over global warming then outlines energy basics and current patterns and trends in energy use This is followed by a discussion of current and advanced technologies for the generation of electricity from fossil fuels The book then considers in detail how energy is used and how this use can be dramatically reduced in the following end use sectors buildings transportation industry food and agriculture municipal services The findings from these sector by sector assessments are then applied to generate scenarios of how global energy demand could evolve over the coming decades with full implementation of the

identified and economically feasible energy saving potential The book ends with a brief discussion of policies that can be used to reduce energy demand but also addresses the limits of technologically based improvements in efficiency in moderating demand and of the need to re think some of our underlying assumptions concern ends with a brief discussing what we really need Along with its companion volume on C free energy supply and accompanied by extensive supplementary online material this is an essential resource for students and practitioners in engineering architecture environment and energy related fields Online material includes Excel based computational exercises teaching slides for each chapter links to free software tools

Green Catalysis and Reaction Engineering Bala Subramaniam, 2022-09-29 Discover tools to perform Life Cycle Analysis LCA and develop sustainable chemical technologies in this valuable guide for chemists engineers and practitioners Tackling one of the key challenges of modern industrial chemical engineering this book introduces tools to assess the environmental footprint and economics of key chemical processes that make the ingredients of everyday products such as plastics synthetic fibers detergents and fuels Describing diverse industrial processes in detail it provides process flow diagrams including raw material sourcing catalytic reactors separation units process equipment and recycle streams The book clearly explains elements of LCA and how various software tools available in the public domain and commercially can be used to perform LCA Supported by real world practical examples and case studies provided by industrial and academic chemists and chemical engineers this is an essential tool for readers involved in implementing LCA and developing next generation sustainable chemical technologies

Prevention of Accidents and Unwanted Occurrences Urban Kjellen, Eirik Albrechtsen, 2017-03-07 This new edition comes after about 15 years of development in the field of safety science and practice The book addresses the question of how to improve risk assessments investigations and organizational learning inside companies in order to prevent unwanted occurrences The book helps the reader in analyzing the subject from different scientific perspectives to demonstrate how they contribute to an overall understanding It also gives a comprehensive overview of different methods and tools for use in safety practice and helps the reader in analyzing their scope merits and shortcomings The book raises a number of critical issues to be addressed in the improvement process

Environmental Chemistry: Chemistry Of Major Environmental Cycles Teh Fu Yen, 2005-07-08 The environment is an invaluable resource and understanding its chemistry is essential to the continued sustainability of life on earth Environmental science which builds on the foundation of chemistry seeks to remedy the present deterioration and degradation caused by humans and to create new technology that will prevent further damage This book deals comprehensively with the five essential global cycles or envionspheres lithosphere minerals and energy sources atmosphere air hydrosphere water pedosphere soil and biosphere life and provides a clear overview of the crucial interaction away them It covers the chemistry of energy resources and aspects of biochemistry geochemistry and toxicological chemistry in addition to the three important areas of air water and soil in the process it links chemical principles with environmental issues With the fundamental principles presented clearly

and the topics covered in a logical sequence this book can be used as a textbook of environmental chemistry for the environmental engineering or environmental science major It can also be used as a reference book for environmental professionals a

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