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TRINITY MARQUISE

In Search of Good Energy Policy International Energy Agency

Company law can and should act as a bridge (rather than a barrier) to progressive corporate climate action.

Energy and Climate Change John Wiley & Sons

"A powerful argument for how America should capitalise on the 'New Energy Abundance'."--The Financial Times "Riveting and comprehensive...a smart, deeply researched primer on the subject."--The New York Times Book Review Windfall is the boldest profile of the world's energy resources since Daniel Yergin's *The Quest*. Harvard professor and former Washington policymaker Meghan L. O'Sullivan reveals how fears of energy scarcity have given way to the reality of energy abundance. This abundance is transforming the geo-political order and boosting American power. As a new administration focuses on raising American energy production, O'Sullivan's *Windfall* describes how new energy realities have profoundly affected the world of international relations and security. New technologies led to oversupplied oil markets and an emerging natural gas glut. This did more than drive down prices. It changed the structure of markets and altered the way many countries wield power and influence. America's new energy prowess has global implications. It transforms politics in Russia, Europe, China, and the Middle East. O'Sullivan explains the consequences for each region's domestic stability as energy abundance upends traditional partnerships, creates opportunities for cooperation. The advantages of this new abundance are greater than its downside for the US: it strengthens American hard and soft power. This powerful book describes how new energy realities creates a strategic environment to America's advantage.

Encyclopedia of Renewable and Sustainable Materials Springer

The issue of sustainability has become a vital discussion in many industries within the public and private sectors. In the business realm, incorporating such practices allows organizations to redesign their operations more effectively. The Handbook of Research on Supply Chain Management for Sustainable Development is a critical scholarly resource that examines academic and corporate interest in sustainability in all facets of business management. Featuring coverage on a wide range of topics such as green supply chains, environmental standards, and production planning, this book is geared toward professionals, researchers, and managers seeking current and relevant research on optimizing supply chains to ensure fair labor practices, lower emissions, and a cleaner environment.

MITIGATING CLIMATE CHANGE: THE POWER OF "WE THE PEOPLE" Springer

Future Energy: Improved, Sustainable and Clean Options for Our Planet, Third Edition provides scientists and decision-makers with the knowledge they need to understand the relative importance and magnitude of various energy production methods in order to make the energy decisions necessary for sustaining development and dealing with climate change. The third edition of *Future Energy* looks at the present energy situation and extrapolates to future scenarios related to global warming and the increase of carbon dioxide and other greenhouse gases in the atmosphere. This thoroughly revised and updated edition contains over 40 chapters on all aspects of future energy, with each chapter updated and expanded by expert scientists and engineers in their respective fields. Provides readers with an up-to-date overview of available energy options, both traditional and renewable, as well as the necessary tools needed to make informed decisions Covers a wide spectrum of future energy resources presented in a single book with chapters written by experts from each particular field Includes many new chapters that cover topics on conventional oil and fossil fuels, a new section on energy storage, and a look at new energy

FOSSIL FUELS AND THE ENVIRONMENT CFA Institute Research Foundation

This book assesses the impact of energy transitions on the future of natural gas in the EU energy mix. As we approach 2050, the requirement to sharply decrease CO2 and other GHG emissions means that the role of gas infrastructure in the EU and beyond will change drastically. But what does such change mean? To address this question the author critically analyses the EU's evolving natural gas market policy and law. Clearly structured throughout, the book explores the following questions: How can we maximise the potential of gas infrastructure to reduce carbon emissions? What are the lessons learned from decision making experience in the natural gas sector? Is the EU moving towards or away from a climate neutral gas sector? How will green and low carbon gas technologies be supported? And, are proposals to drive a growing share of hydrogen, biomethane, and synthetic methane to the system just an excuse to prolong fossil fuel operations? The book explores whether the EU will continue to subsidise natural gas projects or decarbonise the gas grid before 2050, and at what cost. Recommendations are proposed for a new regulatory and policy framework for development and operation of hydrogen pipelines, injection of biomethane into the existing gas grid and for pipelines carrying CO2. Filling an important gap in the literature, this book aims to develop an understanding of and clarify the complex range of legislation involved within a single analytical framework. Although the focus is mainly on the future of gas in the EU, the findings and recommendations are relevant for a much wider geography. This book will be an invaluable reference to policy makers and practitioners as well as researchers and students across the social sciences interested in the future of energy.

Global Business Springer Nature

This book presents essential information for the development of a comprehensive sustainable energy policy. It examines the diverse types of energy,

their resource abundance and the material needs to develop and use them, and how communities and cities can better control their own destinies by locally managing energy use and generation. This approach does not suggest the undoing of existing infrastructures and energy providers, but rather a cooperative transition from national-regional energy management to a more local-centered system. The information is the foundation for eight specific legislative initiatives necessary for a national comprehensive sustainable policy that can both facilitate and drive the process of evolution from a carbon-energy economy to a sustainable renewable energy future.

Commodities at a Glance Edward Elgar Publishing

SMART GRID AND ENABLING TECHNOLOGIES Discover foundational topics in smart grid technology as well as an exploration of the current and future state of the industry As the relationship between fossil fuel use and climate change becomes ever clearer, the search is on for reliable, renewable and less harmful sources of energy. Sometimes called the "electronet" or the "energy Internet," smart grids promise to integrate renewable energy, information, and communication technologies with the existing electrical grid and deliver electricity more efficiently and reliably. *Smart Grid and Enabling Technologies* delivers a complete vision of smart grid technology and applications, including foundational and fundamental technologies, the technology that enables smart grids, the current state of the industry, and future trends in smart energy. The book offers readers thorough discussions of modern smart grid technology, including advanced metering infrastructure, net zero energy buildings, and communication, data management, and networks in smart grids. The accomplished authors also discuss critical challenges and barriers facing the smart grid industry as well as trends likely to be of importance in its future development. Readers will also benefit from the inclusion of: A thorough introduction to smart grid architecture, including traditional grids, the fundamentals of electric power, definitions and classifications of smart grids, and the components of smart grid technology An exploration of the opportunities and challenges posed by renewable energy integration Practical discussions of power electronics in the smart grid, including power electronics converters for distributed generation, flexible alternating current transmission systems, and high voltage direct current transmission systems An analysis of distributed generation Perfect for scientists, researchers, engineers, graduate students, and senior undergraduate students studying and working with electrical power systems and communication systems. *Smart Grid and Enabling Technologies* will also earn a place in the libraries of economists, government planners and regulators, policy makers, and energy stakeholders working in the smart grid field.

Horizons in Sustainable Industrial Chemistry and Catalysis Simon and Schuster

Offers an innovative look at why science and technology cannot alone meet the needs of energy policy making in the future.

Nanobiotechnology for Sustainable Bioenergy and Biofuel Production United Nations

This Handbook is the first volume to comprehensively analyse and problem-solve how to manage the decline of fossil fuels as the world tackles climate change and shifts towards a low-carbon energy transition. The overall findings are straight-forward and unsurprising: although fossil fuels have powered the industrialisation of many nations and improved the lives of hundreds of millions of people, another century dominated by fossil fuels would be disastrous. Fossil fuels and associated greenhouse gas emissions must be reduced to a level that avoids rising temperatures and rising risks in support of a just and sustainable energy transition. Divided into four sections and 25 contributions from global leading experts, the chapters span a wide range of energy technologies and sources including fossil fuels, carbon mitigation options, renewables, low carbon energy, energy storage, electric vehicles and energy sectors (electricity, heat and transport). They cover varied legal jurisdictions and multiple governance approaches encompassing multi- and inter-disciplinary technological, environmental, social, economic, political, legal and policy perspectives with timely case studies from Africa, Asia, Australia, Europe, North America, South America and the Pacific. Providing an insightful contribution to the literature and a much-needed synthesis of the field as a whole, this book will have great appeal to decision makers, practitioners, students and scholars in the field of energy transition studies seeking a comprehensive understanding of the opportunities and challenges in managing the decline of fossil fuels.

Conventional Energy in North America Springer Nature

This book focuses on the most serious social and economic challenges faced by China from a public international law perspective. The vast and diversified nature of public international law inspires the author to organize the book on a topic oriented basis, i.e. selecting five most crucial and interrelated issues in contemporary China to investigate and address. It reviews and evaluates China's response to these challenges and its continuing efforts in searching for solutions to these problems. These issues are inter-related and mutually affective, and moreover, impact collectively on the nation's standings in the international community. The country's national stability and economic sustainability may be retained only when these issues are dealt with efficiently and appropriately. This is a timely and comprehensive book addressing the most crucial problems confronted by contemporary China in the field of public international law, mainly concerning border issues, natural resources, environment and corruption. The work not only addresses these issues separately, but also delineates their interrelationships. In doing so, the complexity of these issues is revealed to a full extent.

Energy Transitions and the Future of Gas in the EU Morgan & Claypool Publishers

Nanostructured Materials for Next-Generation Energy Storage and Conversion: Photovoltaic and Solar Energy, is volume 4 of a 4-volume series on sustainable energy. Photovoltaic and Solar Energy while being a comprehensive reference work, is written with minimal jargon related to various

aspects of solar energy and energy policies. It is authored by leading experts in the field, and lays out theory, practice, and simulation studies related to solar energy and allied applications including policy, economic and technological challenges. Topics covered include: introduction to solar energy, fundamentals of solar radiation, heat transfer, thermal collection and conversion, solar economy, heating, cooling, dehumidification systems, power and process heat, solar power conversion, policy and applications pertinent to solar energy as viable alternatives to fossil fuels. The aim of the book is to present all the information necessary for the design and analysis of solar energy systems for engineers, material scientists, economics, policy analysts, graduate students, senior undergraduates, solar energy practitioner, as well as policy or lawmakers in the field of energy policy, international energy trade, and libraries which house technical handbooks related to energy, energy policy and applications.

Research Anthology on Clean Energy Management and Solutions Springer

The global energy scene is in a state of flux. Large-scale shifts include: the rapid deployment and steep declines in the costs of major renewable energy technologies; the growing importance of electricity in energy use across the globe; profound changes in China's economy and energy policy, moving consumption away from coal; and the continued surge in shale gas and tight oil production in the United States. These changes provide the backdrop for the World Energy Outlook-2017, which includes a full update of energy demand and supply projections to 2040 based on different scenarios. The projections are accompanied by detailed analyses of their impact on energy industries and investment, as well as implications for energy security and the environment. The report this year includes a focus on China, which examines how China's choices could reshape the global outlook for all fuels and technologies. A second focus, on natural gas, explores how the rise of shale gas and LNG are changing the global gas market as well as the opportunities and risks for gas in the transition to a cleaner energy system. Finally, the WEO-2017 introduces a major new scenario - the Sustainable Development Scenario - that outlines an integrated approach to achieving internationally agreed objectives on climate change, air quality and universal access to modern energy.

The Palgrave Handbook of Managing Fossil Fuels and Energy Transitions Elsevier

Over the past 20 years, social scientists, government officials, and investors have expressed mounting interest in the BRICS countries, which include Brazil, Russia, India, China and South Africa. These countries are widely viewed as both key actors in the global economy and important regional powers. The Political Economy of the BRICS Countries is a three-volume set that aims to address various crucial issues regarding these countries. Volume 1 analyzes whether economic growth in the BRICS countries has been broad-based and promoted equitable economic and social outcomes. The authors examine specific dimensions of growth in these five economies that constrain their ability to act effectively and cohesively in international affairs. Volume 2 considers how the BRICS have affected global economic governance and the international political economy. Volume 3 provides various approaches to economic informality in the BRICS. Moreover, the chapters deal with several connections between informality and important political, economic, and institutional phenomena such as economic globalization and international aid, economic development, political regimes, social capital, political networks and political participation, labor market rules, and social policy preferences. The BRICS countries have attracted rising attention over the past two decades. The volumes provide an in-depth analysis of various key issues regarding these countries and chart a course for future research.

Sustainable Energy and Transportation John Wiley & Sons

In the wake of the Brexit vote and the election of Donald Trump, globalization has found itself increasingly under the microscope. An active international discussion is underway, and the ideological viewpoint that the reversal of globalization and a return to protectionism and isolation will cure the world's ills is touted by many. In the midst of the growing prominence of international interconnectivity and contradicting attention attained by skewed misinformation about global impact, Global Business is a straightforward commentary on mega trends in globalization. With insights and observations from academics, practitioners, and practical thinkers from around the world Global Business demystifies the economic, social, and cultural impacts of globalism and globalization, and presents a balanced explanation of what is happening and how it affects everyone. It highlights that technology and change are not new, and explores the path taken to reach our current interconnected global state. It encourages a realistic examination of where we are and invites a dialogue on where we can go together.

Advanced Combustion Techniques and Engine Technologies for the Automotive Sector Springer

This book presents an integrated approach to sustainably fulfilling energy requirements, considering various energy-usage sectors and applicable technologies in those sectors. It discusses smart cities, focusing on the design of urban transport systems and sources of energy for mobility. It also shares thoughts on individual consumption for ensuring the sustainability of energy resources and technologies for emission reductions for both mobility and stationary applications. For the latter, it examines case studies related to energy consumption in the manufacturing sector as well as domestic energy requirements. In addition it explores various distribution and policy aspects related to the power sector and sources of energy such

as coal and biomass. This book will serve as a valuable resource for researchers, practitioners, and policymakers alike.

World Energy Outlook 2008 Springer

Encyclopedia of Renewable and Sustainable Materials, Five Volume Set provides a comprehensive overview, covering research and development on all aspects of renewable, recyclable and sustainable materials. The use of renewable and sustainable materials in building construction, the automotive sector, energy, textiles and others can create markets for agricultural products and additional revenue streams for farmers, as well as significantly reduce carbon dioxide (CO2) emissions, manufacturing energy requirements, manufacturing costs and waste. This book provides researchers, students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development, selection and use of construction and manufacturing materials. Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing, use, application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials

Issues Decisive for China's Rise or Fall World Scientific

Petroleum Resource Management offers a thought-provoking examination of how countries manage their offshore petroleum resources by comparing the different approaches to licensing and regulation taken by Australia, Norway and the UK. Based on extensive research into their policies, licensing systems and resource management regulations, including interviews with government regulators and companies, John Chandler explores how these countries all face similar challenges as their offshore petroleum basins mature, including smaller discoveries, marginal production and ageing infrastructure. Identifying further challenges such as climate change and the increasing accountability in relation to sustainability and social issues, Chandler analyses how their petroleum policy, systems of regulation, and regulators developed up to the present, and how they are responding to these challenges, as well as how they deal with exploration, development, infrastructure sharing, and production. This timely and informative book will be essential reading for those in petroleum policy and governance, including petroleum lawyers, government officials, regulators and analysts. Academics and students on courses relating to petroleum regulation and the governance of resources will also benefit from this engaging book.

Handbook of Research on Supply Chain Management for Sustainable Development Elsevier

Leif Wenar's 2016 book Blood Oil: Tyrants, Violence, and the Rules that Run the World argues that much of the conflict, suffering, and injustice in the world is driven by an archaic rule in global trade that forces consumers to fund oppression and corruption. This oil curse is a major threat to global peace and stability. Wenar sets out Clean Trade policies to lift the oil curse through national legislation that affirms democratic principles. In Beyond Blood Oil, Wenar summarizes and extends his views, setting the stage for five essays from first-class critics from the fields of political theory, philosophy, and energy politics. Wenar replies vigorously and frankly to the critics, making the volume the scene of a highly energetic debate that will benefit all scholars, students, and global citizens interested in global justice, international security, oil politics, fair trade, climate change, and progressive reforms.

Current Debates in International Relations & Law Springer Nature

Horizons in Sustainable Industrial Chemistry and Catalysis, Volume 178, presents a comprehensive picture of recent developments in terms of sustainable industrial processes and the catalytic needs and opportunities to develop these novel routes. Each chapter includes an introduction and state-of-the-art in the field, along with a series of specific aspects and examples. The book identifies new opportunities for research that will help us transition to low carbon and sustainable energy and chemical production. Users will find an integrated view of the new possibilities in this area that unleashes new possibilities in energy and chemistry. Combines an analysis of each scenario, the state-of-the art, and specific examples to help users better understand needs, opportunities, gaps and challenges Offers an integrated view of new catalytic technologies that are needed for future use Presents an interdisciplinary approach that combines broad expertise Brings together experts in the area of sustainable industrial chemistry

World Energy Outlook 2017 IGI Global

Managing Global Warming: An Interface of Technology and Human Issues discusses the causes of global warming, the options available to solve global warming problems, and how each option can be realistically implemented. It is the first book based on scientific content that presents an overall reference on both global warming and its solutions in one volume. Containing authoritative chapters written by scientists and engineers working in the field, each chapter includes the very latest research and references on the potential impact of wind, solar, hydro, geo-engineering and other energy technologies on climate change. With this wide ranging set of topics and solutions, engineers, professors, leaders and policymakers will find this to be a valuable handbook for their research and work. Presents chapters that are accompanied by an easy reference summary Includes up-to-date options and technical solutions for global warming through color imagery Provides up-to-date information as presented by a collection of renowned global experts