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Achieving Universal Energy Access in India - P. C. Maithani 2015-04-23
Forty-five per cent of India's rural population is without electricity and over 85 per cent is dependent on biomass to meet its cooking needs. Projections suggest that if the present trends continue, a large section of India's rural population will remain without access to modern energy services even in 2030. It also follows that energy access is not only a critical component for reducing rural poverty and drudgery but it is also one of the fundamental conditions for holistic rural development. The book takes a critical look at the present energy policy and addresses ways to improve energy penetration. In doing so it encourages the use of renewable energy as an alternate medium, challenging the traditional power proponents.
Renewables 2019 - 2019

General Studies & CSAT - YCT Expert Team
2023 UPPCS (Pre) General Studies & CSAT Solved Papers
Issues in Indian Commerce Sem- III, Bcom-III, PBU - Mr. Mukesh Trehan, Mr. Ranju Trehan & Mr. K K Sharma

Renewable Energy - David Elliott 2018-03-28
Significant progress has been made by industrial countries to reduce emissions from the use of fossil fuels, but as the economies of the less-developed regions of the world begin to expand, they too will face similar challenges. This book looks at energy transitions being made in developing countries, focusing on the adoption of renewable energy systems in Africa, for example under the UN Sustainable Energy for All programme, but also by the EU in the Former Soviet countries of Eastern and Central Europe. It draws on experience from involvement with programmes in the EU and Africa and will be of great interest to academics, policy makers and practitioners in the development aid and renewable energy policy fields.
Sustainable Microbial Technologies for Valorization of Agro-Industrial Wastes - Jitendra Kumar Saini 2022-09-30
This book provides an overview of the different aspects of microbial bioconversion methodologies for valorization of underutilized wastes of varied nature. It covers microbiological/biotechnological aspects, environmental concerns, bioprocess development, scale-up aspects, challenges, and opportunities in microbial valorization at commercial scale. It explains sustainable microbiological processes for bioconversion and valorization of the wastes for production of various products of commercial interests, including biofuels, bioenergy, and other platform chemicals. The book • presents potential biotechnological topics and strategies for the valuation of agricultural waste materials; • provides technical concepts on the production of various commercially significant bioproducts; • introduces various microbial bioprocesses to sustainably valorize various potential wastes as renewable feedstocks for production of biofuels and biochemicals; • explores the relevant scale-up opportunities, commercialization aspects, and critical technological advances; and • explains concepts and recent trends in life cycle analyses in waste valorization. It is aimed at researchers and graduate students in bioengineering, biochemical engineering, microbial technology/microbiology, environmental engineering, and biotechnology.
Hydrogen: A renewable energy perspective - International Renewable Energy Agency IRENA 2019-09-01
This paper examines the potential of hydrogen fuel for hard-to-decarbonise energy uses, including aviation, shipping and other. But the decarbonisation impact depends on how hydrogen is produced.
Environmental Sustainability - P. Thangavel 2014-11-06
Covers different categories of green technologies (e.g. biofuels, renewable energy sources, phytoremediation etc.,) in a nutshell -Focuses on next generation technologies which will help to attain the sustainable development -The chapters widely cover for students, faculties and researchers in the scientific arena of Environmentalists, Agriculturalists, Engineers and Policy Makers The World Environment Day 2012 is prepared to embrace green economy. The theme for 2012 encompasses various aspects of human living, ranging from transport to energy to food to sustainable livelihood. Green technology, an eco-friendly clean technology contributes to sustainable development to conserve the natural resources and environment which will meet the demands of the present and future generations. The proposed book mainly focuses on renewable energy sources, organic farming practices, phyto/bioremediation of contaminants, biofuels, green buildings and green chemistry. All of these eco-friendly technologies will help to reduce the amount of waste and pollution and enhance the nation's economic growth in a sustainable manner. This book is aimed to provide an integrated approach to sustainable environment and it will be of interest not only to environmentalists but also to agriculturists, soil scientists and bridge the gap between the scientists and policy-makers.
Current Affairs - YCT Expert Team
2022 Current Affairs Success
Parliamentary Debates, House of the People - India. Parliament. Lok Sabha 2010-08-05

Biofuels Production and Processing Technology - M.R. Riazi 2017-10-10
The importance of biofuels in greening the transport sector in the future is unquestionable, given the limited available fossil energy resources, the environmental issues associated to the utilization of fossil fuels, and the increasing attention to security of supply. This comprehensive reference presents the latest technology in all aspects of biofuels production, processing, properties, raw materials, and related economic and environmental aspects. Presenting the application of methods and technology with minimum math and theory, it compiles a wide range of topics not usually covered in one single book. It discusses development of new catalysts, reactors, controllers, simulators, online analyzers, and waste minimization as well as design and operational aspects of processing units and financial and economic aspects. The book rounds out by describing properties, specifications, and quality of various biofuel products and new advances and trends towards future technology.
The Renewable Energy Law Review - Karen B. Wong 2018

Standalone Photovoltaic (PV) Systems for Disaster Relief and Remote Areas - Salahuddin Qazi 2016-08-23
Standalone Photovoltaic (PV) Systems for Disaster Relief and Remote Areas explores the increased demand for energy, including clean energy alternatives and the ways that solar energy is fast becoming a vital source for meeting peak demand, a solution for energy demand in disaster and remote areas, and a viable source to meet emerging energy security needs. The book provides a detailed overview of PV systems and

applications for disaster and remote areas, and includes a guide on how to provide electricity during outages, along with important discussions on the need for increasing the resilience of the grid. The differences and requirements for standalone, mobile, and portable PV systems are discussed, along with how systems can be deployed, transported, and used in remote areas. In addition, the book discusses the use of solar PV systems to create environmentally friendly power systems for remote communities that can be operated independently, also comparing the costs, emissions, and practical applications of other technologies. Types of natural disasters, their effect on peoples' lives, on world economy, impact on electric grid and costs of power outages Energy Needs in the aftermath of disasters and remote areas both in developed and developing Countries, including how PV systems can provide electricity affordably, with resilience and reducing grid impact by way of community solar and solar microgrid Detailed description of the types and components of standalone photovoltaic systems, modeling and simulation and performance analysis New initiatives, programs and case studies for providing solar-generated electricity to low-income people both in the United States and the developing world at low cost Examples of assembling one's own PV module and dye-sensitized solar cells, results, databases and industry standards

Path Dependence and New Path Creation in Renewable Energy Technologies - James Simmie 2016-01-08

Why are old technologies persisted with after better alternatives have been invented? This book examines this question, a central concern of evolutionary economics, specifically focusing on renewable energy technologies. The concept of path dependence is used to analyse why and how technological development can become locked-in to inefficient ways of doing things. This book shows how lock-in can be avoided by the creation of new technological pathways. The chapters focus on the comparatively recent introduction of new wind turbine technologies for the generation of carbon free electricity. This case study provides valuable lessons in understanding the issues confronting inventors attempting to commercialise their new ideas in the form of innovations in the face of historically established conventional technologies. It is also set within the critical debate on climate change and the need to de-carbonise energy supplies in order to stop further man-made deterioration in the global environment. This book was originally published as a special issue of European Planning Studies.

Examining the Intersection of Circular Economy, Forestry, and International Trade - Gopalakrishnan, Badri Narayanan 2021-01-22

Sustainable development has always been a contested concept and has been extensively debated over the last 30 years with new classifications arising since then. There was a previous push for the radical transformations of the market economy to downscale production and consumption that would increase human well-being and enhance ecological conditions. Because of this conflict, there was a need for a new model that challenges and could be the alternative for the liner economy; this new model is called the circular economy. A circular economy aimed at eliminating waste and the continual use of resources. It gained its ground in the era of disruptive technological advancement and a dynamic global value chain. By supporting resource-efficient industrial models, the circular economy preserves and improves natural capital, optimizes the value of resources, and abolishes negative environmental externalities such as pollution. Examining the Intersection of Circular Economy, Forestry, and International Trade explores the link between the circular economy and various aspects of the business and environment to understand the usage and viability of adapting the circular economy from a business perspective. The chapters highlight the transition to the circular economy, its implementation across society, its intersection with forestry and international trade, and the solutions and challenges of the circular economy. This book is aimed at researchers in the field of business management, economics, and environmental studies along with practitioners, stakeholders, researchers, academicians, and students looking for more information on the various fields impacting the circular economy as well as the implementation, usage, and viability of a widespread adoption of a circular economy.

Energy Law in India - Mohammad Naseem 2017-07-20

Derived from the renowned multi-volume International Encyclopaedia of Laws, this book provides a systematic approach to legislation and legal practice concerning energy resources and production in India. The book describes the administrative organization, regulatory framework, and relevant case law pertaining to the development, application, and use of such forms of energy as electricity, gas, petroleum, and coal, with attention as needed to the pervasive legal effects of competition law, environmental law, and tax law. A general introduction covers the geography of energy resources, sources and basic principles of energy law, and the relevant governmental institutions. Then follows a detailed description of specific legislation and regulation affecting such factors as documentation, undertakings, facilities, storage, pricing, procurement and sales, transportation, transmission, distribution, and supply of each form of energy. Case law, intergovernmental cooperation agreements, and interactions with environmental, tax, and competition law are explained. Its succinct yet scholarly nature, as well as the practical quality of the information it provides, make this book a valuable resource for energy sector policymakers and energy firm counsel handling cases affecting India. It will also be welcomed by researchers and academics for its contribution to the study of a complex field that today stands at the foreground of comparative law.

The Chinese Shadow on India's Eastward Engagement - Sanjay K. Bhardwaj 2021-07-13

India, one of the largest importers of oil in the world, has been diversifying its energy resource options and moving towards greater energy security. This book analyses India's potential for building energy ties in the Asia–Pacific considering the global and regional power politics. Facing China's growing influence in Asia, India's eastward engagement with its extended neighbours has been entrenched in its Act East Policy and institutional commitments towards Southeast Asia. This volume focuses on diverse facets of energy security beyond the traditional understanding of demand and supply and price and stability. It examines India's energy sector, its dependence on hydrocarbons, and the push towards renewable and alternate energy resources. It further looks at the strategic importance of the Indian Ocean and South China Sea regions in geopolitical negotiations from an energy perspective and how China's influence in the region will affect India's moves towards greater energy cooperation with the countries of East Asia. With contributions by leading experts, the volume seeks to fill a major void in this theme and cater to the needs of a variety of audiences including academics, policymakers and experts in international relations, geopolitics and geoeconomics, and professionals in the field of energy studies.

Annual Report - India. Ministry of New and Renewable Energy 2008

10 Practice Sets for RBI Grade B Officers Exam 2020 Phase 1 - 3rd Edition - Disha Experts 2021-02-04

The Geopolitics of the Global Energy Transition - Manfred Hafner 2020-06-09

The world is currently undergoing an historic energy transition, driven by increasingly stringent decarbonisation policies and rapid advances in low-carbon technologies. The large-scale shift to low-carbon energy is disrupting the global energy system, impacting whole economies, and changing the political dynamics within and between countries. This open access book, written by leading energy scholars, examines the economic and geopolitical implications of the global energy transition, from both regional and thematic perspectives. The first part of the book addresses the geopolitical implications in the world's main energy-producing and energy-consuming regions, while the second presents in-depth case studies on selected issues, ranging from the geopolitics of renewable energy, to the mineral foundations of the global energy transformation, to governance issues in connection with the changing global energy order. Given its scope, the book will appeal to researchers in energy, climate change and international relations, as well as to professionals working in the energy industry.

Parliamentary Debates - India. Parliament. Rajya Sabha 2008-04-23

Energy Security in Asia - Michael Wesley 2007-01-24

This book explores the various dimensions of energy security in Asia – which has become an increasingly important geopolitical issue. Reputable international contributors look at the roles played by each of the major energy importers: the United States, China, Japan and India, as well as the main suppliers: the OPEC states, Russia, the Central Asian states and Australia. In each case, the domestic politics of energy security are investigated, and state interests and perspectives on the issue are considered. Analyzing the policy and security aspects of energy security, the book includes an examination of: the geopolitics of energy competition strategic, economic and environmental dimensions the impacts of energy security on human

security. With energy security being one of the central issues facing the world today, this book is a timely and impressive appraisal of the major energy security issues facing Asia.

Environmental Security and India - Satabdi Das 2022-08-26

This book examines environmental issues through the lens of security studies and presents a comprehensive analysis of Indian policy in dealing with threats posed by climate change. This volume, • Puts forward theoretical base for securitization of environmental issues, incorporating different schools of thought; • Presents a survey of global environmental politics in general and the effects of climate change and its consequences for India's national security in particular; • Examines the politics involved in India's environmental policy at both the domestic and international level; • Outlines key policy takeaways and possibilities for action that can help contain the threat of environmental change. A comprehensive guide to a new and emerging dimension in Indian security policy, this book will be essential reading for students and researchers of international relations, security studies, especially non-traditional security, public policy, especially environmental policy, and area studies.

Water Security and Sustainability - Chandrashekhar Bhuiyan 2021-02-22

This book contains selected peer-reviewed papers presented in the International Conference Down To Earth 2019, and is focused on Water Security and Sustainability. The topics covered in this book include sustainability of water resources, geospatial modelling and hydro-informatics, extreme hydrology (drought and flood), adaptation to climate-change impacts, vulnerability-risk-reliability-resilience, and hydrological risks in north-east India. The book also discusses innovative techniques and technologies for water resources assessment and management. Enriched with numerous case studies covering diverse topics, the book can be valuable for students, researchers, as well as industry professionals interested in water resources assessment, management and sustainable development.

New Energy - Caineng Zou 2020-02-24

This book comprehensively and systematically introduces the principles, key technologies and main types of new energy utilization based on the analysis and prospect of global energy development trend and energy transformation law. Starting from the basic law of energy development, this book points out the inevitability of the development of fossil energy to non-fossil new energy, expounds scientifically and prospectively the importance of developing new energy to conform to the law of energy development and to ensure national energy security, introduces in detail various new energy technologies, summarizes the new strategies of traditional energy companies, and expounds respectively current situation and application prospect. The book is divided into four parts. The first one is "Energy Trend" includes the law of energy development, world energy layout and energy development trend. The second part, "New Energy Revolution", includes revolutionary energy technology and energy Internet technology. The third part is "New Strategies of Traditional Energy Companies", which includes the new energy distribution of oil companies and coal-fired power companies. Part IV "New Energy Theories", includes hydrogen energy, energy storage and new materials, geothermal, nuclear energy, wind and tide and other new energy sources.

The Hydrogen Economy - Michael Ball 2009-09-24

Responding to the sustained interest in and controversial discussion of the prospects of hydrogen, this book strives to reflect on the perspectives of a hydrogen economy in light of the global energy challenge, in particular the question of how to meet the growing demand for transport energy in the long term and how to secure sustainable energy for transportation. This book stands out from other publications by its emphasis on setting the scene for hydrogen, and the comprehensive coverage of all aspects related to the hydrogen subject. It aims to provide a reference and compendium about hydrogen that should be of interest to anyone who wants to catch up on the status of the hydrogen discussion, look up a specific aspect related to hydrogen, or understand how hydrogen comes off compared to other mobility solutions. The book should appeal to a fairly broad readership: academia, policy makers and industry.

Managing the Transition to Renewable Energy - Jeroen C. J. M. van den Bergh 2008-03-31

This edited work studies the transition to renewable energy. It offers perspectives from a wide range of disciplines, addressing macro, regional and local scales. Important lessons are also drawn from historical transitions.

Renewables 2017 - Organization for Economic Cooperation and Development 2017-10-22

The renewable electricity market has witnessed an unprecedented acceleration in recent years, and it broke another annual deployment record in 2016. The market's main driver last year was solar photovoltaics, which is boosting the growth of renewables in power capacity around the world. As costs decline, wind and solar are becoming increasingly comparable to new-build fossil fuel alternatives in a growing number of countries. China remains the dominant player, but India is increasingly moving to the centre stage. Government policies are introducing more competition through renewable auctions, further reducing costs. The IEA's newly renamed Renewables 2017 (formerly titled Medium-Term Renewables Market Report) provides a detailed market analysis and overview of renewable electricity capacity and generation, biofuels production, and heat consumption, as well as a forecast for the period between 2017 and 2022. This year's report also provides additional analysis on the contribution of electric vehicles to renewable road transport and on the off-grid solar market in Africa and developing Asia. Finally, the report identifies a set of policy improvements in key markets that could accelerate the growth of renewables in the electricity sector as well as the growth of transport biofuels for the first time. These are needed to accelerate decarbonisation in all sectors in order to be on track to meet long-term climate goals.

Parliamentary Debates - New Zealand. Parliament 1978

Lok Sabha Debates - India. Parliament. Lok Sabha 2006

Global Renewables Outlook: Energy Transformation 2050 - International Renewable Energy Agency IRENA 2020-04-01

This outlook highlights climate-safe investment options until 2050, policies for transition and specific regional challenges. It also explores options to eventually cut emissions to zero.

Challenges and Opportunities for the World's Forests in the 21st Century - Trevor Fenning 2013-12-03

This book addresses the challenges and opportunities faced by the world’s forests posed by climate change, conservation objectives, and sustainable development needs including bioenergy, outlining the research and other efforts that are needed to understand these issues, along with the options and difficulties for dealing with them. It contains sections on sustainable forestry & conservation; forest resources worldwide; forests, forestry and climate change; the economics of forestry; tree breeding & commercial forestry; biotechnological approaches; genomic studies with forest trees; bio-energy, lignin & wood; and forest science, including ecological studies. The chapters are contributed by prominent organisations or individuals with an established record of achievement in these areas, and present their ideas on these topics with the aim of providing a ready source of information and guidance on these topics for politicians, policy makers and scientists for many years to come.

Indonesia - Asian Development Bank 2016-08-01

This latest energy sector assessment, strategy, and road map for Indonesia highlights energy sector performance, major development constraints, and government development plans and strategy. This report reviews previous support from the Asian Development Bank (ADB) and other development partners, and outlines ADB’s future support strategy in Indonesia’s energy sector. This publication provides energy sector background information for ADB investment and technical assistance operations and will inform ADB’s 2016–2019 country partnership strategy for Indonesia.

Proceedings of the 1986 International Congress on Renewable Energy Sources - S. Terol

International Directory of New and Renewable Energy Information Sources and Research Centres - 1993

Japan's Nuclear Crisis - S. Carpenter 2011-12-12

An analysis and exploration into the impact of Japan's 2011 nuclear crisis. Investigation of the disaster will pose questions regarding why Daiichi was constructed in an earthquake-prone zone and was still operating despite problems that had been plaguing the reactors since 1989 such as cracks in infrastructure and leaks in radioactivity.

CIVIL SERVICES CHRONICLE JUNE 2020 ENGLISH - MR. NN OJHA 2020-05-15

CURRENT AFFAIRS MAGAZINE FOR IAS,IPS,IFS,IRS AND OTHER STATE PUBLIC SERVICE COMMISSION IN INDIA

Future of solar photovoltaic - International Renewable Energy Agency IRENA 2019-11-01

This study presents options to fully unlock the world’s vast solar PV potential over the period until 2050. It builds on IRENA’s global roadmap to scale up renewables and meet climate goals.

Renewable Energy Sources and Climate Change Mitigation - Ottmar Edenhofer 2012

This Intergovernmental Panel on Climate Change Special Report (IPCC-SRREN) assesses the potential role of renewable energy in the mitigation of climate change. It covers the six most important renewable energy sources - bioenergy, solar, geothermal, hydropower, ocean and wind energy - as well as their integration into present and future energy systems. It considers the environmental and social consequences associated with the deployment of these technologies and presents strategies to overcome technical as well as non-technical obstacles to their application and diffusion. SRREN brings a broad spectrum of technology-specific experts together with scientists studying energy systems as a whole. Prepared following strict IPCC procedures, it presents an impartial assessment of the current state of knowledge: it is policy relevant but not policy prescriptive. SRREN is an invaluable assessment of the potential role of renewable energy for the mitigation of climate change for policymakers, the private sector and academic researchers.

Environment in the Indian Parliament - India. Parliament. Lok Sabha 2008