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Dynamic Governance of Energy Technology Change-Silvia Ulli-Beer 2013-12-09 Formulating effective responses to the global challenges of mitigating climate change and securing a sustainable energy future requires a clear understanding of the interdependent causalities between institutions, local decision making, strategic alliances and eco-innovations, as well as policies. It has been acknowledged that the linear "Manhattan project" model is not an adequate governance model for mastering the dynamic complexity of socio-technical transitions; therefore this book aims at advancing research on systematic transition management models. It offers qualitative and quantitative analyses of socio-technical transitions in road transportation and housing, bringing together tailored theorizing on sustainability transitions and applied system dynamics modeling. It highlights the interconnected causal feedbacks that are required to overcome the lock-in situation in road transportation and housing fueled by fossil energies. Showing which concerted actions and framework conditions are required in the transition phases in order to initiate and sustain socio-technical transition, it serves as a guide to model-based strategy making, policy design and analyses in support of sustainable futures. Enabling Collaborative Governance through Systems Modeling Methods-Carmine Bianchi 2020-07-08 This volume constitutes a first approximation for the use of systems approaches and dynamic performance management as tools for collaborative governance. The chapters examine models and simulations used in some specific systems approaches, which contribute to facilitating problem focus and collective understanding of collaborative governance, especially in the area of performance management. The explicit connection between resources and outcomes promoted by this view helps managers to understand better how to improve policy and to create positive outcomes that create public value. Energy Transitions and Social Psychology-Paul Upham 2019-02-01 This book explains how social psychological concepts can be closely integrated with sociotechnical perspectives of energy transitions. It shows the value of actor-centred analysis that acknowledges the role of individual-level processes within their wider contexts of energy supply and use. In this way, the book connects social psychological and sociological frames of analysis, preserving the value of both, to provide multi-level, analytically extended accounts of energy transitions processes. Sociotechnical thinking is about the interactions of people and technology, including the rules, regulations and institutions involved. Such perspectives help to identify the many forms of path dependency that can make change difficult. Human behaviour plays a strong role in maintaining these path dependencies, but it can also introduce change. This book advocates a deliberately interdisciplinary research agenda that recognises the value of social psychological perspectives when seeking to create new pathways for energy supply and use. At the same time, it also demonstrates the value of sociotechnical perspectives for energy-related social psychology. Energy Transitions and Social Psychology will be of great interest to students and scholars of energy transitions, environmental and energy psychology, sustainable development and innovation studies, as well as students and scholars of environment and energy more generally. Electricity and Energy Transition in Nigeria-Norbert Edomah 2020-02-13 Electricity and Energy Transition in Nigeria provides readers with a detailed account of the dynamics of energy infrastructure change in Nigeria's electricity sector. The book starts by introducing the basic theories underpinning the politics of energy infrastructure supply and goes on to explore the historical dimensions of the Nigerian energy transition by highlighting the influences and drivers of energy systems change. Edomah also examines the political dynamics at play, highlighting the political actors and institutions that shape energy supply, as well as the impact of consumer politics. The book concludes by considering how all these factors may influence the future of energy in Nigeria. This book will be of great interest to students and scholars of energy transitions, energy technology and infrastructure, and African Studies more generally. Dynamics of Energy Governance in Europe and Russia-C. Kuzemko 2012-03-02 Energy in Europe and Russia is in flux. This book presents a rich set of case studies for analyzing the complex and intertwined regional dynamics of multiple actors, levels, and policy fields in energy throughout Europe and Russia, with the aim of offering an alternative view to the prevalent geopolitical or neoliberal approaches. Dynamic Governance-Towards a Sustainable Economy-Pascal da Costa 2018-06-26 This book provides an interdisciplinary account of how technological advances - mainly in the domains of energy and transportation - contribute to the transformation towards a more sustainable economic system. Drawing on methods from engineering, the management sciences and economics, which it combines in the framework of a systems sciences approach, the book presents qualitative and quantitative studies on government regulation, resources management and firms' strategy. Topics covered include the state-market dilemma of government CO2 emission targets, implications of the electrification of the economy, incentives and coercion in government transport policies, and innovations in the electric vehicle industry. Renewable Energy Governance-Evanthie Michalena 2013-11-29 This book focuses on Renewable Energy (RE) governance - the institutions, plans, policies and stakeholders that are involved in RE implementation - and the complexities and challenges associated with this much discussed energy area. Whilst RE technologies have advanced and become cheaper, governance schemes rarely support those technologies in an efficient and cost-effective way. To illustrate the problem, global case-studies delicately demonstrate successes and failures of renewable energy governance. RE here is considered from a number of perspectives: as a regional geopolitical agent, as a tool to meet national RE targets and as a promoter of local development. The book considers daring insights on RE transitions, governmental policies as well as financial tools, such as Feed-in-Tariffs; along with their inefficiencies and costs. This comprehensive probing of RE concludes with a treatment of what we call the "Mega-What" question - who is benefitting the most from RE and how society can get the best deal? After reading this book, the reader will have been in contact with all aspects of RE governance and be closer to the pulse of RE mechanisms. The reader should also be able to contribute more critically to the dialogue about RE rather than just reinforce the well-worn adage that "RE is a good thing to happen". Dynamic Sustainabilities-Melissa Leach 2010 Linking environmental sustainability with poverty reduction and social justice, and making science and technology work for the poor, have become central practical, political and moral challenges of our times. These must be met in a world of rapid, interconnected change in environments, societies and economies, and globalised, fragmented governance arrangements. Yet despite growing international attention and investment, policy attempts often fail. Why is this, and what can be done about it? How might we understand and address emergent threats from epidemic disease, or the challenges of water scarcity in dryland India? In the context of climate change, how might seed systems help African farmers meet their needs, and how might appropriate energy strategies be developed? This book lays out a new 'pathways approach' to address sustainability challenges such as these in today's dynamic world. Through an appreciation of dynamics, complexity, uncertainty, differing narratives and the values-based aims of sustainability, the pathways approach allows us to see how some approaches are dominant, even though they do not produce the desired results, and how to create successful alternative 'pathways' of responding to the challenges we face. As well as offering new ways of thinking about sustainability, the book also suggests a series of practical ways forward - in tools and methods, forms of political engagement, and styles of knowledge-making and communication. Throughout the book, the practicalities of the pathways approach are illustrated using four case studies: water in dryland India, agricultural seeds in Africa, responses to epidemic disease and energy systems/climate change.Published in association with the Economic and Social Research Council (ESRC) The Social Dynamics of Carbon Capture and Storage-Nils Markusson 2012 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. New Developments in Eco-Innovation Research-Jens Horbach 2018-09-28 Eco-innovations are crucial for reducing the environmental damages arising from economic activities, and are one of the main drivers of a successful transition towards sustainable development and remedying essential climate change problems. This book provides an overview of recent advances in the rapidly growing field of eco-innovation research, adopts an interdisciplinary perspective and outlines the main future developmental trends. A broad range of topics are addressed, including a bibliometric analysis of eco-innovation research, the relationship between eco-innovation and corporate sustainability, eco-innovation system analysis, new evidence on the economic effects of eco-innovation, and the relevance of policy and policy mixes for eco-innovation activities. The book is dedicated to Klaus Rennings, one of the most important representatives of this field, who unexpectedly passed away in September 2015. Social and Political Implications of Data Mining: Knowledge Management in E-Government-Rahman, Hakikur 2009-02-28 "This book focuses on the data mining and knowledge management implications that lie within online government"--Provided by publisher. Delivering Climate Security-Nick Mabey 2008 "In the next decades, climate change will drive as significant a change in the strategic security environment as the end of the Cold War. If uncontrolled, climate change will have security implications of similar magnitude to the World Wars, but which will last for centuries. The past will provide no guide to this coming future; a robust response will require clear assessments based on the best scientific projections. Security sector actors must not just prepare to respond to the security challenges of climate change; they must also be part of the solution. This Whitehall Paper outlines a framework for climate security analysis and some of its implications for security policy, practice and institutional change." -- RUSI. Converter-based Energy Storage Systems-Federico Milano 2019-04-30 Provides in-depth coverage of the modelling, behaviour, control, and stability analysis of converter-interfaced energy storage systems. The Social Dynamics of Carbon Capture and Storage-Nils Markusson 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. Networked Governance and Transatlantic Relations-Gabriella Paar-Jakli 2014-04-29 In today's complex and interconnected world, scholars of international relations seek to better understand challenges spurred by intensified global communication and interaction. The complex connectedness of modern society and politics compels us to investigate the pattern of interconnections among actors who inhabit social and political spaces. Gabriella Paar-Jakli's study aims to advance theory and practice by examining the networks used by specialists in North America and Europe to achieve their policy goals in the area of science and technology. Her book suggests that to overcome policy problems transnationally, three critical factors should be considered. First, as science and technology policy becomes increasingly critical to resolving global issues, it should be regarded as an integral element of the foreign policy process. Second, as liberal international relations theory argues, the increasing role of NGOs must be taken seriously alongside states as vital agents of policy reform. Third, as transatlantic relations remain center to maintaining the global order, they must be reconsidered. Paar-Jakli assesses the role of digital networks as facilitators of regional cooperation. Utilizing various techniques of social network analysis, her research indicates an active and structurally discernible network in cyberspace among transatlantic organizations, and demonstrates the role of virtual networks as facilitators of cooperative arrangements in transatlantic relations. Paar-Jakli's original research uses social network analysis to investigate transatlantic cooperation, a new approach that will be noteworthy to network and transatlantic scholars as well as policymakers. Frontiers in Water-Energy-Nexus—Nature-Based Solutions, Advanced Technologies and Best Practices for Environmental Sustainability-Vincenzo Naddeo 2019-09-18 This volume includes selected contributions presented during the 2nd edition of the international conference on WaterEnergyNEXUS which was held in Salerno, Italy in November 2018. This conference was organized by the Sanitary Environmental Engineering Division (SEED) of the University of Salerno (Italy) in cooperation with Advanced Institute of Water Industry at Kyungpook National University (Korea) and with The Energy and Resources Institute, TERI (India). The initiative received the patronage of UNESCO - World Water Association Programme (WWAP) and of the International Water Association (IWA) and was organized with the support of Springer (MENA Publishing Program), Arab Water Council (AWC), Korean Society of Environmental Engineering (KSEE) and Italian Society of Sanitary Environmental Engineering Professors (GITISA). With the support of international experts invited as plenary and keynote speakers, the conference aimed to give a platform for Euro-Mediterranean countries to share and discuss key topics on such water-energy issues through the presentation of nature-based solutions, advanced technologies and best practices for a more sustainable environment. This volume gives a general and brief overview on current research focusing on emerging Water-Energy-Nexus issues and challenges and its potential applications to a variety of environmental problems that are impacting the Euro-Mediterranean zone and surrounding regions. A selection of novel and alternative solutions applied worldwide are included. The volume contains over about one hundred carefully refereed contributions from 44 countries worldwide selected for the conference. Topics covered include (1) Nexus framework and governance, (2) Environmental solutions for the sustainable development of the water sector, (3) future clean energy technologies and systems under water constraints, (4) environmental engineering and management, (5) Implementation and best practices Intended for researchers in environmental engineering, environmental science, chemistry, and civil engineering. This volume is also an invaluable guide for industry professionals working in both water and energy sectors. Progress in Solar Energy Technology and Applications-Umakanta Sahoo 2019-10-01 Energy is one of the most important topics of our time, and renewable energy has been a long and still-unfolding story that has taken decades to bring us to where we are today. Even after so much progress, engineers and scientists are always still developing new and innovative techniques, processes, equipment, and materials to further the science and fulfill the mission of generating cleaner, renewable energy for the world's consumption. This new groundbreaking series, Advances in Renewable Energy, covers these topics across the spectrum, including solar, wind, and other renewable energy sources. This first volume in the series focuses on solar energy, probably the fastest-growing and developing area of renewable energy. With new materials and processes constantly coming online, it is important for engineers and scientists to stay abreast of the state-of-the-art in the field, and this volume does just that. Covering not just the basics of the technology and technological advances, the contributors delve into the financial aspects of solar energy systems as well. They look at total costs, not just initial costs, but the costs of maintenance, as well. Covering nearly every aspect of solar energy systems and the latest advances in the field, this is a must-have volume for any engineer, scientist, student, or educator working in or studying solar energy. Environmental Politics in Hong Kong-Heung-yeung Lee 2004 230 leaves : ill. ; 30 cm. Urban Energy Transition-Peter Droege 2011-09-06 This compendium of 29 chapters from 18 countries contains both fundamental and advanced insight into the inevitable shift from cities dominated by the fossil-fuel systems of the industrial age to a renewable-energy based urban development framework. The cross-disciplinary handbook

covers a range of diverse yet relevant topics, including: carbon emissions policy and practice; the role of embodied energy; urban thermal performance planning; building efficiency services; energy poverty alleviation efforts; renewable community support networks; aspects of household level bio-fuel markets; urban renewable energy legislation, programs and incentives; innovations in individual transport systems; global urban mobility trends; implications of intelligent energy networks and distributed energy supply and storage; and the case for new regional monetary systems and lifestyles. Presented are practical and principled aspects of technology, economics, design, culture and society, presenting perspectives that are both local and international in scope and relevance.

Handbook of Governance and Security-James Sperling 2014-08-29 The Handbook is divided into four sections which examine, in turn: the emergence, evolution, and forms of security governance, as well as the theoretical orientations that have so far dominated the literature (networks, multilateralism, regimes, and sy Business and Sustainability-Achim Lang 2014-09-01 Demands for sustainability policies have set new challenges for business both on the individual firm level and on the level of organized business interests. This edited volume brings together economic, social, environmental, and cultural dimensions of sustainability that comprise different challenges for business processes and activities. The aim is to develop an overarching framework to the study of sustainability and business and to advance an interdisciplinary analytical perspective. The book establishes a balanced account that equally represents business as problem causers as well as problem solvers, and therefore responds to the urgent need to investigate the intersection between sustainability issues and business participation.

Reconfiguring Global Climate Governance in North America-Professor Marcela López-Vallejo 2014-05-28 Global climate governance has presented problems that have led to failures, yet it has also opened the door to new transregional governance schemes, especially in North America. This book introduces an environmental dimension into the concept of governance. Almost fifteen years after the climate global governance concept emerged, results worldwide have not been as favorable as expected. This book details previous discussions about the concept of global climate governance and its limits. It highlights how the Kyoto Protocol has a limited design taking into account a national approach to global, regional, and transnational problems, had no obligatory mechanisms for implementation and explains the emergence of new polluters not committed under it such as China and India. Furthermore this book explores other levels of authority such as regional institutions - the North American agreement on trade (NAFTA) and on environment (NAAEC), as well as the regional energy working group (NAEWG). The author puts forward a theoretical proposal for re-territorialization and coordination of policies for climate change into new forms of articulating interests in what she terms transnational green economic regions (TGERs) and tests this on two case studies - the Regional Greenhouse Gas Initiative (RGGI) and the Western Climate Initiative (WCI). This study presents the challenges and opportunities of a transregional approach in North America.

Knowledge Systems and Change in Climate Governance-Babette Never 2014-06-27 The success of international efforts to manage climate change depends on the participation of emerging economies. This book uses a comparative study of two of the most important, India and South Africa, to reveal new insights into managing climate change on a global scale. The book provides a unique in-depth analysis of how these two countries are dealing with climate change at both national and province levels, from India's advances in solar and wind energy development to South Africa's efforts to introduce a carbon tax. Using the innovative theoretical framework of climate knowledge systems, it explores how people in India and South Africa engage with one other, learn and act by forming communities of practice. The book identifies the drivers and barriers of climate governance, showing how different forms of scientific, technological, normative and pragmatic knowledge can aid climate governance and analysing how the underlying mind-set that guides climate action in these countries is changing. This book is a valuable resource for students and scholars of environmental policy, politics and governance, as well as comparative politics, climate change and sustainable development.

America's Energy Future-National Research Council 2010-01-15 For multi-user PDF licensing, please contact customer service. Energy touches our lives in countless ways and its costs are felt when we fill up at the gas pump, pay our home heating bills, and keep businesses both large and small running. There are long-term costs as well: to the environment, as natural resources are depleted and pollution contributes to global climate change, and to national security and independence, as many of the world's current energy sources are increasingly concentrated in geopolitically unstable regions. The country's challenge is to develop an energy portfolio that addresses these concerns while still providing sufficient, affordable energy reserves for the nation. The United States has enormous resources to put behind solutions to this energy challenge; the dilemma is to identify which solutions are the right ones. Before deciding which energy technologies to develop, and on what timeline, we need to understand them better. America's Energy Future analyzes the potential of a wide range of technologies for generation, distribution, and conservation of energy. This book considers technologies to increase energy efficiency, coal-fired power generation, nuclear power, renewable energy, oil and natural gas, and alternative transportation fuels. It offers a detailed assessment of the associated impacts and projected costs of implementing each technology and categorizes them into three time frames for implementation.

State of Innovation-Fred L. Block 2015-11-17 The worst economic crisis since the Great Depression has generated a fundamental re-evaluation of the free-market policies that have dominated American politics for three decades. State of Innovation brings together critical essays looking at the 'innovation industry' in the context of the current crisis. The book shows how government programs and policies have underpinned technological innovation in the US economy over the last four decades, despite the strength of 'free market' political rhetoric. The contributors provide new insights into where innovations come from and how governments can support a dynamic innovation economy as the US recovers from a profound economic crisis. State of Innovation outlines a 21st century policy paradigm that will foster cutting-edge innovation which remains accountable to the public.

Energy Justice in a Changing Climate-Karen Bickerstaff 2013-10-10 Energy justice is one of the most critical, and yet least developed, concepts associated with sustainability. Much has been written about the sustainability of low-carbon energy systems and policies - with an emphasis on environmental, economic and geopolitical issues.

However, less attention has been directed at the social and equity implications of these dynamic relations between energy and low-carbon objectives - the complexity of injustice associated with whole energy systems (from extractive industries, through to consumption and waste) that transcend national boundaries and the social, political-economic and material processes driving the experience of energy injustice and vulnerability. Drawing on a substantial body of original research from an international collaboration of experts this unique collection addresses energy poverty, just innovation, aesthetic justice and the justice implications of low-carbon energy systems and technologies. The book offers new thinking on how interactions between climate change, energy policy, and equity and social justice can be understood and develops a critical agenda for energy justice research.

Postmodern Global Governance-Andreas Rechkemmer 2004 This book is about the United Nations Convention to Combat Desertification (UNCCD) ± one of the multilateral agreements that came out of the UN Conference on Environment and Development (UNCED) held in Rio de Janeiro in 1992. UNCCD is based on a conceptualization of international relations that transcends to a large extent the traditional notions of inter-governmental treaties. Such policy concepts are known under the framework of Global Governance as they allocate political action rather to the horizontal level ± implying multi-actor-networks and the civil society ± than to vertical or top-down processes. The study first shows that ± inspired by the Brundtland Report and the emerging process of globalization ± Rio was the peak season for Global Governance concepts that found their way into treaties and triggered structural reform, thus shaping a different reality of multilateral cooperation. In a second step, the book shows that the Convention to Combat Desertification is the most Global Governance oriented of all of UNCED's outcomes. Its legally binding text contains a number of pertinent elements, ranging from a stringent cross-over of environment and development issues, via the 'bottom-up approach', to a mix of policy tools such as mainstreamed national action programmes and partnership agreements.

The New Politics of Strategic Resources-David Steven 2014-11-21 Since 2008, energy and food markets—those most fundamental to human existence—have remained in turmoil. Resource scarcity has had a much bigger global impact in recent years than has been predicted, with ongoing volatility a sign that the world is only part-way through navigating a treacherous transition in the way it uses resources. Scarcity, and perceptions of scarcity, increase political risks, while geopolitical turmoil exacerbates shortages and complicates the search for solutions. The New Politics of Strategic Resources examines the political dimensions of strategic resource challenges at the domestic and international levels. For better or worse, energy and food markets are shaped by perceptions of national interest and do not behave as traditional market goods. So while markets are an essential part of any response to tighter resource supplies, governments also will play a key role. David Steven, Emily O'Brien, Bruce Jones, and their colleagues discuss what those roles are and what they should be. The architecture for coordinating multilateral responses to these dynamics has fallen short, raising questions about the effective international management of these issues. Politics impede here too, as the major powers must negotiate political and security trade-offs to cooperate on the design of more robust international regimes and mechanisms for resource security and the provision of global public goods. This timely volume includes chapters on major powers (United States, India, China) and key suppliers (Russia, Saudi Arabia). The contributors also address thematic topics, such as the interaction between oil and state fragility; the changing political dynamics of climate change; and the politics of resource subsidies.

Governance for the Sustainable Development Goals-Joachim Monkelbaan 2018-05-31 This book provides a detailed overview of governance for the Sustainable Development Goals (SDGs). Adopting a unique integrative approach, it examines the fragmentation of governance that is a critical barrier to achieving the SDGs. The main question addressed is: What are the crucial elements and the organizing logic of an integrative framework that is suitable for analysing governance for the SDGs and for implementing the transitions that we need towards a more sustainable world? This transdisciplinary book first proposes a combination of innovative governance theories that can improve the analysis and practice of sustainability governance. Secondly, it explores the interests of core actors in a number of case examples. And thirdly, it offers recommendations for improving the study and practice of sustainability governance. The findings presented form the basis for a new approach to governance towards objectives such as the SDGs: Integrative Sustainability Governance (ISG). The ensuing ISG framework includes indicator frames within the pillars of power, knowledge and norms. The book concludes that the transformation of crisis into sustainability transitions requires a deeper consideration of risk management that strengthens resilience; systems deliberation that complements democracy; and behavioral insights that elevate human awareness and collaboration. This handbook is a comprehensive and valuable companion for students, experts and practitioners with an interest in the SDGs.

Responsible Governance-Tom Cockburn 2015-01-26 Evolving stories of governance and change are being written into the emerging custom and practice of all kinds of organizations today, whether they are global or domestic, startup or blue chip, corporate or government agency. Changing ways of 'doing business' are not new, nor is globalization of business, but the velocity and trajectory of both are rapidly accelerating beyond those seen in previous times. There are increasing concerns and challenges for the boards of directors and other governance systems and processes. They are intended to ensure good stewardship of the diverse organizations in the period following the global nancial crisis. Responsible Governance aims to challenge assumptions and present current debates for readers, grounding the critical issues or descriptions in relevant historical and social contexts as well as suggesting ways forward. Dr Tom Cockburn obtained his rst degree with honors from Leicester University, England, both his MBA and Doctorate were gained at Cardiff University, Wales. Tom is associate fellow of the New Zealand Institute of Management and is currently director-policy for the Center for Dynamic Leadership Models in Global Business and a senior associate of The Leadership Alliance Inc., headquartered in Canada.

Outlook- 2002

Dynamic Industrial Policy in Africa-United Nations. Economic Commission for Africa 2014 For millions of Africans, growth is yet to translate into jobs and better living conditions. Africa's largely commodity- driven growth has not been matched by the much needed structural change that can lead to economic transformation, employment, and reduced poverty. Market failures necessitate industrial policy interventions. Yet, in the absence of the right processes and institutions, good industrial policies will fail. Indeed, weak institutions and poor policy design have hindered industrial policy. This report gives a framework for getting the policy process right to foster industrialization. It uses 11 country case studies to assess the critical ingredients for spurring industrialization - innovative institutions, effective processes and flexible mechanisms - and structural transformation.

21st Century Technologies Promises and Perils of a Dynamic Future-OECD 1998-09-25 This book reviews the extraordinary promise of technological advances over the next twenty years or so, and assesses some of the key issues -- economic, social, environmental, ethical -- that decision-makers in government, business and society will face in the decades ahead.

New Trends in Electrical Vehicle Powertrains-Luis Romeral Martinez 2019-01-30 The electric vehicle and plug-in hybrid electric vehicle play a fundamental role in the forthcoming new paradigms of mobility and energy models. The electrification of the transport sector would lead to advantages in terms of energy efficiency and reduction of greenhouse gas emissions, but would also be a great opportunity for the introduction of renewable sources in the electricity sector. The chapters in this book show a diversity of current and new developments in the electrification of the transport sector seen from the electric vehicle point of view: first, the related technologies with design, control and supervision, second, the powertrain electric motor efficiency and reliability and, third, the deployment issues regarding renewable sources integration and charging facilities. This is precisely the purpose of this book, that is, to contribute to the literature about current research and development activities related to new trends in electric vehicle power trains.

Corporate Governance: Principles, Policies and Practices, 2/e-A. C. Fernando 2011

Cases on Green Energy and Sustainable Development-Yang, Peter 2019-07-26 Despite the urgent need for action, there is a widespread lack of understanding of the benefits of using green energy sources for not only reducing carbon emissions and climate change, but also for growing a sustainable economy and society. Future citizens of the world face increasing sustainability issues and need to be better prepared for energy transformation and sustainable future economic development. Cases on Green Energy and Sustainable Development is a critical research book that focuses on the important role renewable energy and energy efficiency play in energy transition and sustainable development and covers economic and promotion policies of major renewable energy and energy-efficiency technologies. Highlighting a wide range of topics such as economics, energy storage, and transportation technologies, this book is ideal for environmentalists, academicians, researchers, engineers, policymakers, and students.

Government Reports Announcements & Index- 1995

The Risk Pivot-Bruce D. Jones 2014-11-21 The last decade has seen a revolution in global energy. First, we saw explosive growth in demand from Asia's rising powers, which fueled fears about scarcity and conflict. But we've also seen an American revolution in technology and markets, resulting in a dramatic increase in sup-ply. This is strengthening America's hand in the world—but it's not without complications. There are major security consequences of these shifts. Among the most consequential are China and India, Asia's emerging giants, which are increasingly exposed to political risks associated with energy risks, as well as the energy flows, pivoting to Asia. Meanwhile the great powers struggle to balance their need for fossil fuels with a mounting effort to tackle climate change. The top powers, and the United States above all, face a stra-tegic choice: whether to use energy as a weapon of geopolitics, or as a tool of a stable order. CONTENTS Introduction 1. The President and the King—Key Messages of the Book 2. The Energy Revolutions—A Primer Geopolitics in Flux—The Players 3. Choices—Scenarios, and the Choice the Powers Confront 4. Rough Seas Ahead—The Great Powers' Search for Energy Security Globalization and Complexity—The Problems 5. Transition in the Gulf 6. The Turbulent Middle 7. Fragile States 8. The Russian Problem 9. Connections—from Pipelines to Politics Governance—The Partners 10. An Emerging System of Global Energy Governance 11. Leadership Choices

The Palgrave Handbook of Local Governance in Contemporary China-Jianxing Yu 2019-01-07 This Handbook provides a comprehensive overview of local governance in China, and offers original analysis of key factors underpinning trends in this field drawing on the expertise of scholars both inside and outside China. It explores and analyzes the dynamic interaction and collaboration among multiple governmental and non-governmental actors and social sectors with an interest in the conduct of public affairs to address horizontal challenges faced by the local government, society, economy, and civil community and considers key issues such as governance in urban and rural areas, the impact of technology on governance and related issues of education, healthcare, environment and energy. As the result of a global and interdisciplinary collaboration of leading experts, this Handbook offers a cutting-edge insight into the characteristics, challenges and trends of local governance and emphasizes the promotion of good governance and democratic development in China.

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