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Energy Needs, Chemicals and Environmental Controls

Springer

This open access book makes a case for a socially inclusive energy transition and illustrates how engineering and public policy professionals can contribute to shaping an inclusive energy transition, building on a socio-technical systems engineering approach. Accomplishing a net-zero greenhouse gas emissions economy in 2050 is a daunting challenge. This book explores the challenges of the energy transition from the perspectives of technological innovation, public policy, social values and ethics. It elaborates on two particular gaps in the design of public policy interventions focused on decarbonization of the energy system and discusses how both could be remedied. First, the siloed organization of public administration fails to account for the many interdependencies between the energy sector, the mobility system, digital infrastructure and the built environment. Cross-sector coordination of policies and policy instruments is needed to avoid potentially adverse effects upon society and the economy, which may hamper the energy transition rather than accelerate it. Second, energy and climate policies pay insufficient attention to the social values at stake in the energy transition. In addressing these gaps, this book intends to inspire decision makers engaged in the energy transition to embrace the transition as an opportunity to bring a more inclusive society into being.

Energy and Environment Organization for Economic
 This publication is the fourth in a series of pocketbook compilations on energy statistics designed to highlight the availability of data on various aspects of energy production, transformation and use and its linkages to other key statistics. Energy is central to the achievement of the 2030 Agenda for Sustainable Development and the Paris Agreement on climate change, and sound energy statistics are the basis for the reliable measurement of progress, thereby assisting the formulation of policy measures to achieve international and national sustainable development goals.

Annual Energy Outlook 2012 United Nations Publications

"World Energy Outlook 2008 draws on the experience of another turbulent year in energy markets to provide new energy projections to 2030, region by region and fuel by fuel, incorporating the latest data and policies. "

Challenges to Coherence, Legitimacy and Effectiveness Energy Statistics of Non-OECD

This open access book presents a picture of the current energy challenges on the African continent (and the Sub-Saharan region in particular) and proposes pathways to an accelerated energy

transition. Starting with an analysis of the status quo and the outlook for Africa's energy demand and energy access, it provides an account of the available resources, including hydrocarbons and renewable energy resources, which are playing an increasingly crucial role. It then moves on to analyze the level of investment required to scale-up Africa's energy systems, shedding light on the key barriers and elaborating on potential solutions. It also provides a suggestion for improving the effectiveness of EU-Africa cooperation. While mainly intended for policymakers and academics, this book also speaks to a broader audience interested in gaining an overview of the challenges and opportunities of the African energy sector today and in the future.

Catalysing Energy Technology Transformations Organization for Economic Co-Operation & Development
 Energy is essential for humanity to develop and thrive. In 2015, the new Sustainable Development Goals, adopted by 193 countries, included for the first time a target to ensure affordable, reliable, sustainable and modern energy for all, underscoring a new level of political agreement on the importance of access to modern energy services. At the same time, the declining cost of decentralised renewables, increased access to affordable energy-efficient appliances and the use of mobile platforms are changing the way we think about providing energy access. It is against this backdrop that the IEA produced this Special Report, part of its flagship World Energy Outlook (WEO) series. This report: Expands and updates the WEO's country-by-country electricity and clean cooking access database, and assesses the status for all developing countries, reviewing recent trends and policy efforts up to 2016. Presents a global and regional electricity and clean cooking access outlook to 2030, with a dedicated chapter on sub-Saharan Africa. Provides a pathway for achieving access to modern energy for all by 2030, identifying policy priorities, detailing investment needs, and the role that decentralised and on-grid solutions may play. Analyses how energy development can unleash economic growth in sectors such as agriculture, and explores how energy access intersects with other issues such as gender, health and climate change.

World Energy Outlook 2002 United Nations
 This open access book questions the stereotype depicting all Gulf (GCC) economies as not sustainable, and starts a critical discussion of what these economies and polities should do to guarantee themselves a relatively stable future. Volatile international oil markets and the acceleration of the energy transition has challenged the notion that oil revenues are sufficient to sustain oil economies in the near to medium term. But what is the meaning of economic sustainability? The book discusses the multiple dimensions of the concept: economic diversification, continuing value of resources, taxation and fiscal development, labor market sustainability, sustainable income

distribution, environmental sustainability, political order (democracy or authoritarianism) and sustainability, regional integration. The overarching message in this book is that we should move on from the simplistic branding of the Gulf economies as unsustainable and tackle the details of which adaptations they might need to undertake.

World Energy Outlook Organization for Economic

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.

Energy Policies of IEA Countries Routledge

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.

Riding the Energy Transition International Renewable Energy Agency (IRENA)

Recent technological developments and past technology transitions suggest that the world could be on the verge of a profound shift in transportation technology. The return of the electric car and its adoption, like that of the motor vehicle in place of horses in early 20th century, could cut oil consumption substantially in the coming decades. Our analysis suggests that oil as the main fuel for transportation could have a much shorter life span left than commonly assumed. In the fast adoption scenario, oil prices could converge to the level of coal prices, about \$15 per barrel in 2015 prices by the early 2040s. In this possible future, oil could become the new coal.

Global Energy Assessment Royal Society of Chemistry

This paper presents a simple macroeconomic model of the oil market. The model incorporates features of oil supply such as

depletion, endogenous oil exploration and extraction, as well as features of oil demand such as the secular increase in demand from emerging-market economies, usage efficiency, and endogenous demand responses. The model provides, inter alia, a useful analytical framework to explore the effects of: a change in world GDP growth; a change in the efficiency of oil usage; and a change in the supply of oil. Notwithstanding that shale oil production today is more responsive to prices than conventional oil, our analysis suggests that an era of prolonged low oil prices is likely to be followed by a period where oil prices overshoot their long-term upward trend.

Strengthening the Electricity Sector to Improve Efficiency and Support Economic Activity

Cambridge University Press
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.

2007 Cambridge University Press

Poor performance of the electricity sector remains a drag to economic efficiency and a bottleneck to economic activity in many low-income countries. This paper proposes a number of models that account for different equilibria (some better, some worse) of the electricity sector. They show how policy choices (affecting insolvency prospects or related to rules for electricity dispatching or tariff setting), stochastic generation costs, and initial conditions, affect investment in generation and electricity supply. They also show how credible (non-credible) promises of stronger enforcement to reduce theft result in larger (smaller) electricity supply, lower (higher) government subsidies, and lower (higher) tariffs and distribution losses, which in turn affect economic activity. To illustrate these findings, the paper reviews the experience of Haiti, a country stuck in a bad equilibrium of insufficient supply, high prices, and electricity theft; and that of Nicaragua, which is gradually transitioning to a better equilibrium of the electricity sector.

Elsevier

The global energy landscape is evolving at a rapid pace, reshaping long-held expectations for our energy future. The 2014 edition of the World Energy Outlook (WEO) will incorporate all the latest data and developments to produce a comprehensive and authoritative analysis of medium- and longer-term energy trends. It will complement a full set of energy projections - which extend from today through, for the first time, the year 2040 - with strategic insights into their meaning for energy security, the economy and the environment. Oil, natural gas, coal, renewables and energy efficiency will be covered, along with updates on trends in energy-related CO₂ emissions, fossil-fuel and renewable energy subsidies, and universal access to modern energy services.

With Projections to 2035 International Monetary Fund

* Clear and concise, information is analysed and presented in both a resource-by-resource and country-by-country approach * Comprehensive, the outlook for seventeen energy resources including all major fossil and renewable resources is evaluated * Free CD-Rom will help electronic navigation of this comprehensive resource The Survey of Energy Resources (SER) is a unique and authoritative publication produced by the World Energy Council every three years, since 1934. SER presents a comprehensive global picture of resource availability, production and consumption levels, technological developments and outlook for seventeen energy resources, including all major fossil and renewable resources. Each resource is covered in a separate chapter which comprises a commentary by a leading expert in the field, data tables and country notes. The information contained is the best available from a wide variety of sources. The SER is published every three years in line with WEC's work cycle, culminating in publication at the World Energy Congress. The

20th edition of SER will be published at the time of the 19th World Energy Congress (Sydney, September 2004). * Provides global and country specific comprehensive information and data * Provides authoritative information in a compact and user-friendly format * Best available data from a wide variety of sources

2004 Survey of Energy Resources

IWA Publishing

"The projections in the U.S. Energy Information Administration's (EIA's) Annual Energy Outlook 2012 (AEO2012) focus on the factors that shape the U.S. energy system over the long term. Under the assumption that current laws and regulations remain unchanged throughout the projections, the AEO2012 Reference case provides the basis for examination and discussion of energy production, consumption, technology, and market trends and the direction they may take in the future. It also serves as a starting point for analysis of potential changes in energy policies. But AEO2012 is not limited to the Reference case. It also includes 29 alternative cases (see Appendix E, Table E1), which explore important areas of uncertainty for markets, technologies, and policies in the U.S. energy economy. Many of the implications of the alternative cases are discussed in the 'Issues in focus' section of this report. / Key results highlighted in AEO2012 include continued modest growth in demand for energy over the next 25 years and increased domestic crude oil and natural gas production, largely driven by rising production from tight oil and shale resources. As a result, U.S. reliance on imported oil is reduced; domestic production of natural gas exceeds consumption, allowing for net exports; a growing share of U.S. electric power generation is met with natural gas and renewables; and energy-related carbon dioxide emissions remain below their 2005 level from 2010 to 2035, even in the absence of new Federal policies designed to mitigate greenhouse gas (GHG) emissions."--Executive Summary (p. 2).

Global Renewables Outlook: Energy Transformation 2050

Organization for Economic Co-Operation & Development International Outlook 2016, an updated statistical reference with energy projections, is provided as a service to energy managers and analysts, both in government and in the private sector. The projections are used by international agencies, federal and state governments, trade associations, and other planners and decision makers. They are published pursuant to the Department of Energy Organization Act of 1977 (Public Law 95-91), Section 205(c). The report begins with a review of world trends in energy demand and the major macroeconomic assumptions used in deriving the International Energy Outlook 2016 (IEO2016) projections, along with the major sources of uncertainty in the Reference case projections, High Economic Growth and Low Economic Growth cases were developed to consider the effects of higher and lower growth paths for economic activity than are assumed in the Reference case. IEO2016 also includes a High Oil Price case and, alternatively, a Low Oil Price case. The resulting projections--and the uncertainty associated with international energy projections in general--are discussed in Chapter 1, "World energy demand and economic outlook." Projections for energy consumption and production by fuel--petroleum and other liquid fuels, natural gas, and coal--are presented in Chapters 2, 3, and 4, along with reviews of the current status of each fuel on a worldwide basis. Chapter 5 discusses the projections for world electricity markets--including nuclear power, hydropower, and other marketed renewable energy resources--and presents projections of world installed generating capacity. Chapter 6 presents a discussion of energy used in the buildings sector (residential and commercial). Chapter 7 provides a discussion of industrial sector energy use. Chapter 8 includes a detailed look at the world's transportation energy use. Finally, Chapter 9 discusses the outlook for global energy-related carbon dioxide emissions. IEO 2016 focuses exclusively on marketed energy.

Non-marketed energy sources, which continue to play an important role in some developing countries, are not included in the estimates. Related products: Energy & Fuels resources collection can be found here:

<https://bookstore.gpo.gov/catalog/science-technology/energy-fuels>

More statistical references can be found here:

<https://bookstore.gpo.gov/catalog/statistics-data>

Oil Prices and the Global Economy Organization for Economic and Social Affairs
The report discusses the linkages between energy and economic, social, environmental, and security issues, and analyses the contradictions between current patterns of use and objectives in these areas. The WEA also reviews energy resources and technology options from the point of view of sustainability including better end-use efficiency, greater reliance on renewable sources of energy, and next-generation nuclear and fossil-fuel technologies. Further, the report examines plausible scenarios for combining various options to achieve a sustainable and relatively prosperous future. The report concludes by examining policy options for producing and using energy in ways that are compatible with sustainable development.

Energy Access Outlook 2017

Government Printing Office
Analysing the interactions between institutions in the climate change and energy nexus, including the consequences for their legitimacy and effectiveness. Prominent researchers from political science and international relations compare three policy domains: renewable energy, fossil fuel subsidy reform, and carbon pricing. This title is also available as Open Access on Cambridge Core.

Coal in the 21st Century

International Monetary Fund
The ten Association of Southeast Asian Nations (ASEAN) countries are among the most dynamic parts of the global energy system and a rising force in international energy affairs. Thanks to its growing partnership with Southeast Asia, the International Energy Agency (IEA) has conducted regular in-depth studies of the energy challenges facing this region. This new report, which was prepared as part of the IEA's flagship World Energy Outlook series, provides insights for policy makers, industry and other energy stakeholders to help address the energy sector challenges facing Southeast Asia today. The report highlights: The state of play across the Southeast Asia's energy sector, based on the latest data and announcements. How today's policies shape this region's energy demand and supply outlook to 2040, and the implications for energy security, the environment and development. The opportunities that broader changes in global markets and low-carbon technologies open up for Southeast Asia. The investment required to improve efficiency and expand energy supply infrastructure, especially in the electricity sector. The mix of fuels and technologies that can help Southeast Asia achieve universal electricity access. An alternative pathway, the Sustainable Development Scenario, to meet energy security and environmental goals.

When Can Oil Economies Be Deemed Sustainable?

Springer Nature
This publication analyses energy policy and market trends in the member countries of the International Energy Agency (IEA), including: energy demand and supply changes over the last decade; fuel price trends for the past two years; progress in regulatory reform with an analysis of the electricity crisis in California; and actions taken by the IEA countries to meet their Kyoto targets. The publication presents summaries of the in-depth country reviews of Australia, Belgium, Czech Republic, New Zealand, Spain and Turkey carried out during 2000-01. Shorter reviews of policy developments in Finland, Hungary, Ireland, Italy, Japan and Switzerland are also included, as well as an overview of developments in non-member countries including Russia, Saudi Arabia, India and China. Key energy balances and energy statistics for all IEA countries are given.

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