Green Alternatives And National Energy Strategy The Facts Behind The Headlines

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Green Alternatives And National Energy Strategy The Facts Behind The Headlines ***2024-02-14***

FULLER LYDIA

Green Alternatives and National Energy Strategy Simon and Schuster
We don’t have an energy crisis. We have a consumption crisis. And this book, which takes aim at cherished assumptions regarding energy, offers refreshingly straight talk about what’s wrong with the way we think and talk about the problem. Though we generally believe we can solve environmental problems with more energy—more solar cells, wind turbines, and biofuels—alternative technologies come with their own side effects and limitations. How, for instance, do solar cells cause harm? Why can’t engineers solve wind power’s biggest obstacle? Why won’t contraception solve the problem of overpopulation lying at the heart of our concerns about energy, and what will? This practical, environmentally informed, and lucid book persuasively argues for a change of perspective. If consumption is the problem, as Ozzie Zehner suggests, then we need to shift our focus from suspect alternative energies to improving social and political fundamentals: walkable communities, improved consumption, enlightened governance, and, most notably, women’s rights. The dozens of first steps he offers are surprisingly straightforward. For instance, he introduces a simple sticker that promises a greater impact than all of the nation’s solar cells. He uncovers why carbon taxes won’t solve our energy challenges (and presents two taxes that could). Finally, he explores how future environmentalists will focus on similarly fresh alternatives that are affordable, clean, and can actually improve our well-being. Watch a book trailer.
The Facts behind the Headlines Royal Society of Chemistry
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.
Powering the Future National Academies Press
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.
Energy Storage Options and Their Environmental Impact DIANE Publishing
The United States and China are the world's top two energy consumers and, as of 2010, the two largest economies. Consequently, they have a decisive role to play in the world's clean energy future. Both countries are also motivated by related goals, namely diversified energy portfolios, job creation, energy security, and pollution reduction, making renewable energy development an important strategy with wide-ranging implications. Given the size of their energy markets, any substantial progress the two countries make in advancing use of renewable energy will provide global benefits, in terms of enhanced technological understanding, reduced costs through expanded deployment, and reduced greenhouse gas (GHG) emissions relative to conventional generation from fossil fuels. Within this context, the U.S. National Academies, in collaboration with the Chinese Academy of Sciences (CAS) and Chinese Academy of Engineering (CAE), reviewed renewable energy development and deployment in the two countries, to highlight prospects for collaboration across the research to deployment chain and to suggest strategies which would promote more rapid and economical attainment of renewable energy goals. Main findings and concerning renewable resource assessments, technology development, environmental impacts, market infrastructure, among others, are presented. Specific recommendations have been limited to those judged to be most likely to accelerate the pace of deployment, increase cost-competitiveness, or shape the future market for renewable energy. The recommendations presented here are also pragmatic and achievable.
Reliable, Affordable, and Environmentally Sound Energy for America's Future Oxford Business Group
Can the nation satisfy its energy demands with wind turbines, solar power, hydroelectric power, or geothermal power? Is biodiesel or electricity the answer to our gas-guzzling ways? Organized logically and with an accessible narrative, Green Alternatives and National Energy Strategy guides readers through the essential questions and hurdles the United States must answer and overcome to transition from a petroleum-dependent nation to one that runs on sustainable, renewable energy.
Energy and Empire National Academies Press
A mind-expanding, cheerfully dystopian new novel by Yoko Tawada, winner of the National Book Award Welcome to the not-too-distant future: Japan, having vanished from the face of the earth, is now remembered as “the land of sushi.” Hiruko, its former citizen and a climate refugee herself, has a job teaching immigrant children in Denmark with her invented language Panska (Pan-Scandinavian): “homemade language. no country to stay in. three countries I experienced. insufficient space in brain. so made new language. homemade language.” As she searches for anyone who can still speak her mother tongue, Hiruko soon makes new friends. Her troupe travels to France, encountering an

umami cooking competition; a dead whale; an ultra-nationalist named Breivik; unrequited love; Kakuzo robots; red herrings; uranium; an Andalusian matador. Episodic and mesmerizing scenes flash vividly along, and soon they’re all next off to Stockholm. With its intrepid band of companions, Scattered All Over the Earth (the first novel of a trilogy) may bring to mind Alice’s Adventures in Wonderland or a surreal Wind in the Willows, but really is just another sui generis Yoko Tawada masterwork.

Special Report of the Intergovernmental Panel on Climate Change Trafford Publishing

Fusion energy; Fusion and the environment; Solar energy and the environment; Coal and hydrogen: two oldtimers with a future; Nuclear fusion; The solar family; Geothermal, tidal and water powers; Aspects of the future.

Balancing Global Development and Conservation U.S. Government Printing Office

How can society quickly convert to renewable energy? Can worldwide energy needs ever be met through 100% renewable sources? The answers to these questions rest largely on the perception of choice in the energy arena. It is of pivotal importance that engineers, researchers and policymakers understand what choices are available, and reasonable, when considering the design and deployment of new energy systems. The mission of this new book, written by one of the world's foremost experts in renewable power, is to arm these professionals with the tools and methodologies necessary to make smart choices when implementing renewable energy systems. Provides an introduction to the technical design of renewable energy systems Demonstrates effective methodologies for analyzing the feasibility and efficiency of large-scale renewable energy systems to help implementers avoid costly trial and error Contextualizes renewable energy design efforts by addressing the socio-political challenge of implementing the shift to renewables Free companion analysis software empowers energy professionals to crunch data for their own projects Features a dozen extensive case studies from around the globe that provide successful real-world templates for new installations

Future Energy Alternatives National Academies Press

Doctoral Thesis / Dissertation from the year 2020 in the subject Business economics - Industrial Management, grade: 88.8, , course: Doctoral Degree Program, language: English, abstract: A sustainable energy regime, especially for developing countries such as Ivory Coast, is a wise choice. It can mobilize renewable energy resources, modernize energy system, allow for energy savings, safeguard the equilibrium of local ecosystems, contribute to poverty alleviation and, therefore, constitutes a significant aid towards universal access to modern energy services. This current research investigates the conditions needed to achieve a sustainable energy regime by the next decade (2030) in Ivory Coast, West Africa. To identify these conditions, first, a forecast model using a hybrid method, support vector regression (SVR) and an autoregressive integrated moving average (ARIMA) was employed to predict energy consumption by 2030. Second, a back-casting approach to assessing alternative energy scenarios was carried out. Third, a national energy action plan (NEAP) was designed with the help of a multi-criteria decision analysis (MCDA) and a technique known as the fuzzy analytic hierarchy process (AHP). The results show that, by 2030, conventional fuels should be dominant in the transport and industrial sectors, while traditional forms of energy should prevail over others in the residential one. Besides, the green scenario that accumulates universal energy access, energy efficiency, and renewable energies dissemination targets are the most sustainable. Moreover, social criterion and solar energy were found the most critical factor and the most preferred renewable energy, respectively, when considering a sustainable energy path. Based on those findings, it was recognized that a definite shift in energy policy maximizing the use of clean types of energy was required to reach a sustainable energy regime. In this perspective, policy recommendations, in addition to the national energy action plan, were provided to guide the Ivorian decision-makers.

Guide to Purchasing Green Power Green Alternatives and National Energy StrategyThe Facts behind the Headlines

Fact sheet for school-aged children which provides information on how to save energy. Includes list of further resources for kids and their teachers.

Report of the National Energy Policy Development Group Springer Science & Business Media

It is no secret that the United States' dependence on oil -- mostly foreign -- puts the country in a precarious position. The United States needs innovative ways not only to power millions of automobiles on its highways but also to secure sustainable sources of fuel for the future. This book presents the latest facts and figures about alternative energy to any physicist, engineer, policymaker, or concerned citizen who needs a reliable source of information on the nation's looming energy crisis. Philip G. Gallman focuses especially on green vehicles and the interrelationship between their design and various energy sources. He explains simply and clearly the complex energy and automotive engineering issues involved in developing green vehicles, measures their likely effect on energy resource demand, and considers what they might mean for national energy strategy. Addressing problems associated with renewable resources often overlooked or ignored in the popular press, Gallman explains what replacing oil with alternative sources of energy realistically entails. Can the nation satisfy its energy demands with wind turbines, solar power, hydroelectric power, or geothermal power? Is biodiesel or electricity the answer to our gas-guzzling ways? Organized logically and with an accessible narrative, Green Alternatives and National Energy Strategy guides readers through the essential questions and hurdles the United States must answer and overcome to transition from a petroleum-dependent nation to one that runs on sustainable, renewable energy.

How We Will (Eventually) Solve the Energy Crisis and Fuel the Civilization of Tomorrow International Renewable Energy Agency (IRENA)

This major reference work brings together for the first time key articles on the economics of renewable energy. From a modest role as a backstop technology in the 1970s to a central role in low carbon transitions today, this collection reveals the emergence and growing importance of this sub-field of economics. Topics covered in this timely volume include the costs of renewable power (taking account of issues related to technological development, intermittency and interconnection), policies that promote renewable energy development, its public and private demand, and its impact on the environment and the economy. This indispensable collection is complemented by a comprehensive introduction that will serve as an essential source of reference for students and researchers.

Review and Analysis of Robert Bryce's Book Academic Press

Green Alternatives and National Energy StrategyThe Facts behind the HeadlinesJHU Press

Electricity from Renewable Resources Primento
Over the next several decades, as human populations grow, the demand for energy will soar. But renewable energy sources have a large energy sprawl--the amount of land needed to produce energy--which can threaten biodiversity. In Energy Sprawl Solutions, scientists Joseph M. Kiesecker and David Naugle provide a roadmap for preserving biodiversity despite the threats of energy sprawl. Their strategy--development by design--identifies and sets aside land where biodiversity can thrive while consolidating development in areas with lower biodiversity value. This contributed volume features case studies from countries around the world, each describing a different energy sector and the way they have successfully maximized biodiversity protection. This book provides a needed guide for elected officials, industry representatives, NGOs and community groups who have a stake in sustainable energy-development planning.
Routledge
This book deals with the emerging generation of renewable energy technologies, covering solar energy (photovoltaic, thermal and thermodynamic energy conversion), wind energy, marine energy, small hydropower, geothermal energy, biofuels, biogas and the use of wood as a substitute for fossil fuels.
The Economics of Renewable Energy Butterworth-Heinemann
IRENA's latest global cost study shows solar and wind power reaching new price lows. The report highlights cost trends for all major renewable electricity sources.
Nuclear Power--the Unviable Option Island Press
Recent decades have seen huge growth in the renewable energy sector, spurred on by concerns about climate change and dwindling supplies of fossil fuels. One of the major difficulties raised by an increasing reliance on renewable resources is the inflexibility when it comes to controlling supply in response to demand. For example, solar energy can only be produced during the day. The development of methods for storing the energy produced by renewable sources is therefore crucial to the continued stability of global energy supplies. However, as with all new technology, it is important to consider the environmental impacts as well as the benefits. This book brings together authors from a variety of different backgrounds to explore the state-of-the-art of large-scale energy storage and examine the environmental impacts of the main categories based on the types of energy stored. A valuable resource, not just for those working and researching in the renewable energy sector, but also for policymakers around the world.
Hearings Before the Committee on Energy and Natural Resources, United States Senate, One Hundred Seventh Congress, First Session .... BoD – Books on Demand
"This guide can be downloaded from: www.eere.energy.gov/femp/technologies/renewable%5Fpurchasepower.cfm, www.epa.gov/greenpower/buygreenpower.htm, www.thegreenpowergroup.org/publications.html, www.resource-solutions.org."--Verso. t.p.
Renewable Energy Technologies Infobase Publishing
This book provides a platform for scientists and engineers to comprehend the technologies of solar wind hybrid renewable energy systems and their applications. It describes the thermodynamic analysis of wind energy systems, and advanced monitoring, modeling, simulation, and control of wind turbines. Based on recent hybrid technologies considering wind and solar energy systems, this book also covers modeling, design, and optimization of wind solar energy systems in conjunction with grid-connected distribution energy management systems comprising wind photovoltaic (PV) models. In addition, solar thermochemical fuel generation topology and evaluation of PV wind hybrid energy for a small island are also included in this book. Since energy storage plays a vital role in renewable energy systems, another salient part of this book addresses the methodology for sizing hybrid battery-backed power generation systems in off-grid connected locations. Furthermore, the book proposes solutions for sustainable rural development via passive solar housing schemes, and the impacts of renewable energies in general, considering social, economic, and environmental factors. Because this book proposes solutions based on recent challenges in the area of hybrid renewable technologies, it is hoped that it will serve as a useful reference to readers who would like to be acquainted with new strategies of control and advanced technology regarding wind solar hybrid systems
Scattered All Over the Earth International Renewable Energy Agency (IRENA)
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.