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The Politics of Energy Research and Development Energy Energy Studies
Renewable Energy Development Energy Efficiency and Renewable Energy
Research, Development, and Demonstration Advances in Energy Research.
Volume 1 What You Need to Know About Energy Energy R & D and National
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Abstracts A National Plan for Energy Research, Development & Demonstration
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Frontiers in Energy Research Confronting Climate Change Department of Energy
Research and Development Programs--fiscal Year 1987 Energy and Our World Net
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of Energy's Marine and Hydrokinetic Resource Assessments Establishing a
Hydrogen Research and Development Program An Inventory of Energy Research,
Prepared for the Task Force on Energy of the Subcommittee on Science,
Research, and Development..., by Oak Ridge National Laboratory with the
Support of the National Science Foundation Decentralized Energy Studies Energy
Around the World Energy Research at the Cutting Edge U.S. Energy R & D Policy
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Our National Effort Fiscal year 1988 Department of Energy authorization
Sociology of Interdisciplinarity Electric Energy Systems and Energy Storage
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Demonstration Alternative Energy Demand Futures to 2010 Energy Research
Abstracts Encyclopedia of Energy

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The Politics of Energy Research and Development 1986-01-01 the politics of

energy research and development examines and evaluates u s research and development policies to promote nuclear solar conservation and other technology options this volume is the third in the series energy policy studies which explores fundamental long term social political and economic dimensions of energy technology resources and use contributions represent a wide range of theoretical and policy perspectives including sociology economics political science urban and regional studies environmental analysis and history and philosophy of technology contents richard l ottinger introduction the tragedy of u s energy r d policy amor degrees b lovins the origins of the nuclear power fiasco richard t sylves nuclear exotica peaceful use of nuclear explosives eugene frankel technology politics and ideology the vicissitudes of federal solar energy policy 1974 1983 maxine savitz the federal role in conservation research and development j david roessner commercialization issues in energy technology policy john byrne and daniel rich in search of the abundant energy machine and grant p thompson energy policy in the interim waiting for the next shoe to drop

Energy 1985 how is the future world energy demand to be met the rates of use of the fossil fuels coal oil and natural gas are increasing all over the world the remaining stocks are finite and are not renewable this book considers the various options of renewable energy including water energy wind energy and biomass solar thermal and solar photovoltaic energy and should the nuclear option remain open the work also examines the environmental implications and economic viability of all fossil and renewable sources introduces more distant future options of geothermal energy and nuclear fusion and discusses a near future energy strategy

Energy Studies 2014-03-19 this book presents a comprehensive review of renewable energy sources the environment and sustainable development this includes all the renewable energy technologies materials and their development energy efficiency systems energy conservation scenarios energy savings and other mitigation measures necessary to reduce climate change also explored in this volume is ocean energy its benefits and barriers and solar radiation as a primary daytime source of energy various scenarios are extrapolated in order to assess the potential environmental impact of increasing world population and consumption throughout the 21st century and a general overview of the world wide trend in fossil fuels

Renewable Energy Development 1988 american society with a standard of living unprecedented in human history can attribute a large measure of its success to increasingly sophisticated uses of energy but that condition has come at a cost to irreplaceable resources to the environment and to our national independence the goal of what you need to know about energy is to present an accurate picture of america s current and projected energy needs and to describe options that are likely to play a significant role in our energy future written for a

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general audience the booklet begins with a description of the status of energy in 21st century america including an account of our main sources of energy and a survey of the nation s energy demand versus the world s available supply it then looks ahead to the quest for greater energy efficiency and to a portfolio of emerging technologies

Energy Efficiency and Renewable Energy Research, Development, and Demonstration

1989 energy weaves the tapestry of our lives and it does so in more ways than we usually recognize while it is clear that it powers our homes airplanes and factories its overwhelming influence often goes without notice in other areas from the heartbreak of poverty to the motivation for war while maintaining its availability has the potential to create jobs and contribute to competitive economies nonrenewable energy sources are scarring our landscapes polluting our air and fouling our water understanding how we use energy and what we are willing to do to maintain our access to it can help us prepare for the complex and daunting challenges that linger as we look for alternatives in the thread of energy martin j pasqualetti homes in on this vital driver of human actions and decisions he exposes the impact of energy according to multiple scales of measurement and assessment from everyday applications to global entanglements the book traces our increasing dependence on earth s nonrenewable energy resources by comparing lifestyle changes throughout history pasqualetti showcases the many ways energy infiltrates communication methods in all its forms e g print visuals digital etc the final chapters detail various approaches used by democratic societies looking to lessen their energy usage including the critical importance of environmentally conscious policymakers the thread of energy treats energy as a social issue with a technical component rather than the other way around

Advances in Energy Research. Volume 1 2011-07-13 a natural complement to the book energy studies by the same authors this book contains solutions to 370 existing and new problems many with illustrations and updated tables of data on fuel supply this book is also available as a set with energy studies energy studies considers the various options of renewable energy including water energy wind energy and biomass solar thermal and solar photovoltaic energy and should the nuclear option remain open the book examines the environmental implications and economic viability of all fossil and renewable sources introduces more distant future options of geothermal energy and nuclear fusion and discusses a near future energy strategy

What You Need to Know About Energy 2008-04-25 semiannual with semiannual and annual indexes references to all scientific and technical literature coming from doe its laboratories energy centers and contractors includes all works deriving from doe other related government sponsored information and foreign nonnuclear information arranged under 39 categories e g biomedical sciences basic studies biomedical sciences applied studies health and safety and fusion

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Energy R & D and National Progress 1965 the politics of energy research and development examines and evaluates u s research and development policies to promote nuclear solar conservation and other technology options this volume is the third in the series energy policy studies which explores fundamental long term social political and economic dimensions of energy technology resources and use contributions represent a wide range of theoretical and policy perspectives including sociology economics political science urban and regional studies environmental analysis and history and philosophy of technology contents richard l ottinger introduction the tragedy of u s energy r d policy amor b lovins the origins of the nuclear power fiasco richard t sylves nuclear exotica peaceful use of nuclear explosives eugene frankel technology politics and ideology the vicissitudes of federal solar energy policy 1974 1983 maxine savitz the federal role in conservation research and development j david roessner commercialization issues in energy technology policy john byrne and daniel rich in search of the abundant energy machine and grant p thompson energy policy in the interim waiting for the next shoe to drop

The Thread of Energy 2021-10-19 written by the editor of the encyclopedia of energy cutler cleveland dictionary of energy gives professionals across the multi disciplinary field of energy a tool to better communicate on energy matters and understand energy issues and opportunities this paperback edition priced at less than half the price of the hardcover edition and expanded with over 500 new terms makes this valuable reference available to an even wider audience beyond energy scientists including new professionals students and corporate oil and gas companies over 10 000 entries covering some 40 scientific disciplines and topics essays by scientists biographical entries on key individuals and historical comments historical quotes on energy matters illustrated with 100 photos and illustrations now expanded with over 500 new terms and available in paperback at half the price of the first edition

Problems and Solutions 2008 energy fuels modern society though it is often taken for granted the issues surrounding energy supply of paramount importance to governments the world over while calls for clean energy technologies are rampant and loud conventional sources like coal and oil remain the most feasible however research continues to plow ahead to find better and more efficient ways to keep the demand for energy met nuclear power is a perennially controversial but enticing possibility although many nations seek to phase out nuclear power citing safety and environmental concerns the energy industry and production is a major economic component in any country so all energy and electricity issues hold sway over us all this book brings together an important selection of studies focusing on the energy industry its current state and future included are looks at nuclear power and economic policies to influence the electric industry this current

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research combines for a needed resource in the study of energy

Energy Research Abstracts 1980 issues in energy research and application 2011 edition is a scholarly editions ebook that delivers timely authoritative and comprehensive information about energy research and application the editors have built issues in energy research and application 2011 edition on the vast information databases of scholarly news you can expect the information about energy research and application in this ebook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of issues in energy research and application 2011 edition has been produced by the world's leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarly editions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarly editions com

A National Plan for Energy Research, Development & Demonstration

1977 a handbook of sustainable energy covering entire energy aspects from present status to future alternatives under one umbrella this book takes an interdisciplinary system approach to evaluating energy systems so that readers can gain the necessary technical foundation to perform their own performance evaluations and understand their interactions with socioeconomic indicators topics include the current and future availability of primary sources energy supply chain conversion between different forms of energy security of energy supply and efficient end use of energy sources each chapter provides readers with comprehensive background information an outline of the current technologies and potential future developments the book also examines the global economic societal ethical and environmental issues associated with currently used energy technologies energy for sustainable society from resources to users starts with a general overview of energy systems and describes the major elements of energy transformation and supply chain it then discusses interdisciplinary career opportunities in the energy engineering field the fundamental concepts of energy conversion transmission and load flow in electrical systems are covered as are conventional and unconventional fossil fuels and the basics of nuclear power generation and reactor types other chapters look at the fundamental concepts of thermodynamics and basic operation of steam turbines gas turbines and combined cycle heat engines used in fossil fuel and nuclear power plants current technologies in hydroelectric power generation renewable and alternative energy sources energy security issues and more contains up to date information on renewable energy technologies such as grid tie net zero energy battery backup and utility independent micro grids presents the status of the share of renewable sources in the current and future energy supply mix provides solved examples case studies self assessment quizzes and problems to enhance the understanding of readers includes an exclusive chapter on energy security issues energy for

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sustainable society gives readers a solid foundation to study energy related subjects and is an ideal book for a first course on energy systems for upper division undergraduate and first year graduate students

The Politics of Energy Research and Development 2018-06-28 increasing renewable energy development both within the united states and abroad has rekindled interest in the potential for marine and hydrokinetic mhk resources to contribute to electricity generation these resources derive from ocean tides waves and currents temperature gradients in the ocean and free flowing rivers and streams one measure of the interest in the possible use of these resources for electricity generation is the increasing number of permits that have been filed with the federal energy regulatory commission ferc as of december 2012 ferc had issued 4 licenses and 84 preliminary permits up from virtually zero a decade ago however most of these permits are for developments along the mississippi river and the actual benefit realized from all mhk resources is extremely small the first u s commercial gridconnected project a tidal project in maine with a capacity of less than 1 megawatt mw is currently delivering a fraction of that power to the grid and is due to be fully installed in 2013 as part of its assessment of mhk resources doe asked the national research council nrc to provide detailed evaluations in response the nrc formed the committee on marine hydrokinetic energy technology assessment as directed in its statement of task sot the committee first developed an interim report released in june 2011 which focused on the wave and tidal resource assessments appendix b the current report contains the committee s evaluation of all five of the doe resource categories as well as the committee s comments on the overall mhk resource assessment process this summary focuses on the committee s overarching findings and conclusions regarding a conceptual framework for developing the resource assessments the aggregation of results into a single number and the consistency across and coordination between the individual resource assessments critiques of the individual resource assessment further discussion of the practical mhk resource base and overarching conclusions and recommendations are explained in an evaluation of the u s department of energy s marine and hydrokinetic resource assessment

Hydrogen 1988 energy fuels modern society though it is often taken for granted the issues surrounding energy supply of paramount importance to governments the world over while calls for clean energy technologies are rampant and loud conventional sources like coal and oil remain the most feasible however research continues to plough ahead to find better and more efficient ways to keep the demand for energy met nuclear power is a perennially controversial but enticing possibility although many nations seek to phase out nuclear power citing safety and environmental concerns the energy industry and production is a major economic component in any country so all energy and electricity issues hold sway over us all this book brings together an important selection of studies focusing on

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~~the energy industry its current state and future included are looks at nuclear~~

power and economic policies to influence the electric industry this current research combines for a needed resource in the study of energy
Dictionary of Energy 2009-08-24 during the past few decades there has been an advance in the research and development of solving the issue of declining energy resources funding by the u s government into energy research has risen steeply because of the growing importance of research and development in this field of research in 1973 resources for the future undertook a study of energy associated study including an investigation of how research on energy r d itself could be carried out this title first published in 1974 assesses a wide range of ways in which economics could contribute to decisions on where and in what amounts government r d money should be spent the report also evaluates the research and development approach in relation to other public energy policies or management tools the book will be of interest to students of environmental studies and economics

Frontiers in Energy Research 2007 in this compilation the authors first present a study in which computational design is performed using empirical data to fit physical models to extract transport and material parameters which are then used in 1d continuum and 3d particle models of charge transport to validate against empirical measurement and each other prior to use in extrapolation studies next the book aims to discuss and illustrate the key trends behind the current international and european union energy and climate policy the authors provide insights into current dynamics enabling a better understanding of future developments and indicating that unless a global effort to reduce greenhouse gas emissions is made emissions will continue to rise the authors also present a computer algorithm based on type 1 fuzzy logic control strategies to manage the flow of energy in stand alone pv wind battery hybrid systems the solar and wind energies were combined together to increase systems efficiency and batteries were used to ensure the availability of power on demand and improve the dynamic behavior of the system both traditional and state of the art proteomics techniques used for quantification of corn stover hydrolyzing enzymes are presented in the following chapter the quantitative expression of cellulolytic and hemicellulolytic enzymes secreted by different microbes during corn stover hydrolysis is discussed and an attempt is made to link the substrate complexity and quantitative composition of lignocellulolytic enzymes produced by microbes later an algorithm based on artificial neural network ann and data envelopment analysis dea is proposed for analyzing and assessing industrial sectors for energy potential for illustrative purposes energy use in the south african industrial sector between 1993 and 2025 was presented as a case study the closing study reviews the merits of these artificial neural network ann and data envelopment analysis to develop a new hybrid model to determine how much energy could be conserved in the residential sector the model was applied to the united states

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residential sector from 1984 to 2010 and it was discovered that 7.5 of energy consumed could be conserved

Confronting Climate Change 1990-02-01 even though i ve been involved in interdisciplinary energy research for more than 20 years this book is an eye opener for me tanja winther professor university of oslo norway silvast and foulds recuperate the critical side of social sciences and bring it into the discussions of what interdisciplinary research can be david hess professor of sociology vanderbilt university usa this open access book builds upon science and technology studies sts and provides a detailed examination of how large scale energy research projects have been conceived and with what consequences for those involved in interdisciplinary research which has been advocated as the zenith of research practice for many years quite often in direct response to questions that cannot be answered or even preliminarily investigated by disciplines working separately it produces fresh insights into the lived experiences and actual contents of interdisciplinarity rather than simply commentating on how it is being explicitly advocated we present empirical studies on large scale energy research projects from the united kingdom norway and finland the book presents a new framework the sociology of interdisciplinarity which unpacks interdisciplinary research in practice this book will be of interest to all those interested in well functioning interdisciplinary research systems and the dynamics of doing interdisciplinarity including real ground level experiences and institutional interdependencies antti silvast holds a researcher position in the department of interdisciplinary studies of culture at the norwegian university of science and technology ntnu he is a sociologist examining energy infrastructure most recently smart systems methodology and energy modelling chris foulds is an associate professor at anglia ruskin university s global sustainability institute cambridge uk he is an interdisciplinary environmental social scientist researching how society and everyday life intersect with energy policies governance consumption and the built environment

Department of Energy Research and Development Programs--fiscal Year 1987 1986

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