



# Alternative Energy Sources

**Sabine Zange**



## **Alternative Energy Sources:**

**Renewable Energy** Anne Elizabeth Maczulak, 2010 Green Technology is an eight volume set that examines the relationship between human activities and their sometimes harmful consequences for the environment and explores new methods of repairing and restoring the Earth Approaching environmental issues confronting society from a technological perspective has spawned significant controversy and the books in this set present all sides of the debate Designed to complement science curricula the set also covers relevant history and new green technologies and innovations that will contribute to the field in the future Renewable Energy Sources and Methods examines the current technologies in renewable energy a critical subject given that the world increases its energy consumption between 1 and 3 percent each year Considering the current rate of energy consumption and the consequences of continuing at this rate the book explains how the main conventional sources of energy including coal oil and gas affect economies worldwide The book also focuses on the remarkable diversity of ideas and innovations in the field of alternative energy Sidebars figures and case studies enhance fundamental concepts and examine urgent issues related to the future of the environment The volume includes information on alternative vehicles biomass the biorefining industry clean energy converting solid waste to energy Earth s energy sources green building design and construction recycling water conservation worldwide energy programs The book contains more than 40 color photographs and line illustrations five appendixes a glossary a detailed list of print and Internet resources and an index Green Technology is essential for high school students teachers and general readers who seek information on the important issues that affect the environment worldwide Book jacket

**Renewable Energy Sources** Andrew Solway, 2009-07-01 Presents an introduction to renewable energy resources discussing how they are being developed and utilized and covering such energy alternatives as biofuels wind solar geothermal nuclear and hydroelectricity *Advanced Renewable Energy Sources* G. N. Tiwari, Rajeev Kumar Mishra, 2012 This book is an ideal reference text for teaching renewable energy to engineering and science students as well as a reference book for scientists and professionals doing self study on the subject The book has twelve chapters and starts with the definition and classification of renewable and non renewable energy and their status at global level This chapter also contains the basic heat transfer mechanisms and laws of thermodynamics It then deals with availability of solar radiation at different latitudes and energy and exergy analysis of flat plate collector solar air collector solar concentrator evacuated tube collector solar water heating system solar distillation and solar cooker The following chapter discusses the basics of semiconductor its characteristics working characteristics of solar cell in dark and daylight situation fundamentals of characteristic curves of semiconductor fundamentals of PV module and array and some PVT systems Detailed discussion on biomass bio fuels and biogas and their applications and the power produced by them namely bio power is covered in the following chapters Other renewable energy sources like hydropower wind and geothermal are then covered as well as a chapter dealing with the working principle basic theory and the capability

to produce power from ocean thermal tidal wave and animal energy conversion systems Subsequently net CO<sub>2</sub> mitigation carbon credit climate change and environmental impacts of all renewable energy resources are all covered followed by a discussion on the techno economic feasibility of any energy sources as the backbone of its success and hence energy and economic analysis The chapters deal the overall exergy of renewable energy sources by using the thermal and mechanical power and electrical energy as output SI units are used throughout the book in solving various exercises in each chapter and conversion units of various physical and chemical parameters of metals and non metals are also given in appendices

**Power System Design Applications for Alternative Energy Sources** Khalil Denno,1988-10-01 Reference describing the non traditional non fossil or nuclear fuels and suggestions for optimal use Alternative Energy Neil Schlager,Jayne Weisblatt,2006 This volume focuses on water and wind energies and explores the move towards more energy efficient tools appliances building materials and vehicles *Renewable Energy and Green Technology* Narendra Kumar,Hukum Singh,Amit Kumar,2021-12-09 *Renewable Energy and Green Technology Principles and Practices* is based on the present need to understand the principles and utility of renewable energy and green technology to minimize dependency on fossil fuels in global development Renewable energy is the best and cheapest source of energy as an alternate resource There is massive potential for renewable energy globally including in India The efficient utilization of renewable energy resources could minimize the impact of climate change globally Generally renewable energy is generated from essentially inexhaustible sources including wind power solar power geothermal energy tidal energy biomass energy and other sources Hence encouraging renewable energy use could save our tomorrow from the climate change perspective and in terms of sustainable food production This book promotes the exchange of ideas policy formulation and collective action to ensure a smooth transition to renewable energy It describes the technological interventions for reducing environmental and economic damage resulting from the use of conventional energy sources In this book the focus is on utilizing various renewable energy sources in diverse sectors It also elaborates the descriptive methodology of different renewable energies accompanied by figures and tables It provides information on biogas energy plants gasifier technologies and hydropower technologies among others along with their applications Further it delves into energy concepts and details significant advantages of the energy resources for sustaining the future world Lastly this book will provide instant access to comprehensive cutting edge knowledge making it possible for academicians and researchers to utilize this ever growing wealth of information Key features Emphasizes the understanding of the principles and utility of renewable energy and green technology to minimize dependency on fossil fuels in the era of global development Focuses on recent trends in renewable energy with principles and practices in relation to climate change Highlights advanced approaches for sustainable use of renewable energy sources Illustrates the methodology for various aspects of renewable energy with figures and charts Discusses the green technology usages of the agriculture and forestry sectors Provides comprehensive cutting edge information for policymakers in the field

of renewable energy     *STEM Labs: Alternative Energy Workbook, Grades 5 - 12* Schyrlet Cameron,Carolyn Craig,2020-01-02 GRADES 5 12 This 80 page science workbook helps students learn about the potential of renewable energy sources FEATURES This science resource book uses the scientific method and engages students through experimenting assessing and presenting research findings as they attempt to solve real world problems INCLUDES Units are designed to cultivate an interest in the STEM fields of science technology engineering and math Topics covered include energy energy sources electricity solar energy geothermal energy and much more Contents of this workbook help students to strengthen their communication skills critical thinking skills and more WHY MARK TWAIN MEDIA Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character     **Energy Alternatives** Andrea C. Nakaya,2008 While most consumable energy is derived from fossil fuels the utilization of alternative energy sources has been scrutinized and hotly debated in recent years Through objective overviews primary sources and full color illustrations this title examines Are Alternative Energy Sources Necessary What Alternative Energy Sources Should Be Pursued Can Alternative Energy Be Used for Transportation How Will Increased of Energy Alternatives Impact Society     Green vs. Green Ryan M. Yonk,Randy T. Simmons,Brian C. Steed,2013-05-07 Renewable and carbon neutral energy have been promoted as the future of energy production in the United States Non traditional energy sources show promise as alternatives to fossil fuels and may provide a sustainable source of energy in increasingly uncertain energy markets However these new sources of energy face their own set of political administrative and legal challenges Green vs Green explores how mixed land ownership and existing law and regulation present serious challenges to the development of alternative energy sources in the United States Analytically examining and comparing five green energy sectors wind solar geothermal biofuel and hydro power Ryan M Yonk Randy T Simmons and Brian C Steed argue that discussing alternative energy without understanding these pitfalls creates unrealistic expectations regarding the ability to substitute green energy for traditional sources The micro goals of protecting individual areas species small scale ecosystems and other local environmental aims often limits ability to achieve macro goals like preventing global climate change or transitioning to large scale green energy production Statutes and regulations designed to protect environmental and cultural integrity from degradation directly conflict with other stated environmental ends Although there is substantial interest in adding clean energy to the grid it appears that localized environmental interests interfere with broader environmental policy goals and the application of existing environmental laws and regulations may push us closer to gridlock Green vs Green provides a fascinating look into how existing environmental law created or will create substantial regulatory hurdles for future energy generations     *Sustainability and Environmental Impact of Renewable Energy Sources* R E Hester,R M Harrison,2007-10-31 The world s dependence on fossil fuels is widely

acknowledged to be a major cause of rising levels of carbon dioxide in the atmosphere Thus there is an urgent need to develop energy sources with lower environmental impact with attention focusing on renewable energy sources Concise authoritative up to date and readable this book reviews various energy technologies as well as taking a critical look at the political social and economic aspects Throughout the emphasis is on renewable energy sources wind wave solar biomass etc but a discussion of fossil fuels and nuclear power is also presented This timely book written by recognised experts will be welcomed by those in the energy industries as well as by policy makers consultants and engineers Students and lecturers will also find the material invaluable

**Integration of Alternative Sources of Energy** Felix A. Farret, M. Godoy

Simoes, 2006-04-20 A unique electrical engineering approach to alternative sources of energy Unlike other books that deal with alternative sources of energy from a mechanical point of view *Integration of Alternative Sources of Energy* takes an electrical engineering perspective Moreover the authors examine the full spectrum of alternative and renewable energy with the goal of developing viable methods of integrating energy sources and storage efficiently Readers become thoroughly conversant with the principles possibilities and limits of alternative and renewable energy The book begins with a general introduction and then reviews principles of thermodynamics Next the authors explore both common and up and coming alternative energy sources including hydro wind solar photovoltaic thermosolar fuel cells and biomass Following that are discussions of microturbines and induction generators as well as a special chapter dedicated to energy storage systems After setting forth the fundamentals the authors focus on how to integrate the various energy sources for electrical power production Discussions related to system operation maintenance and management as well as standards for interconnection are also set forth Throughout the book diagrams are provided to demonstrate the electrical operation of all the systems that are presented In addition extensive use of examples helps readers better grasp how integration of alternative energy sources can be accomplished The final chapter gives readers the opportunity to learn about the HOMER Micropower Optimization Model This computer model developed by the National Renewable Energy Laboratory NREL assists in the design of micropower systems and facilitates comparisons of power generation techniques Readers can download the software from the NREL Web site This book is a must read for engineers consultants regulators and environmentalists involved in energy production and delivery helping them evaluate alternative energy sources and integrate them into an efficient energy delivery system It is also a superior textbook for upper level undergraduates and graduate students

*Renewable Energy Sources for Sustainable Development* Narendra Singh Rathore, N. L. Panwar, 2007-01-15 There is perfect relationship between energy ecology and environment If a proper balance is maintained among these three aspects than sustainable development for the welfare of human beings is obtained This book has been written with a view to draw attention for integration of renewable energy in all sectors for sustainable development The aim of this book is to examine the range of views related to renewable energy sources for sustainable and their implications The authors have simplified and clarified renewable energy

technologies and new theories for a sustainable development Sustainable development has been characterized by an emphasis on environmental issues and its inter relationship with renewable energy sources In present context there is a need to develop an approach to structure the subject which hinders the development of knowledge in a systematic way The built environment contributes significantly to the society and thus development in holistic manner Integration of renewable energy sources is one of the major factors in determining whether a community is sustainable in the longer term or not In this book emphasis has been made on various aspects of energy planning such as energy assessment energy integration energy forecasting energy modeling computer modeling and techno economic analysis of different conventional as well as non conventional renewable energy sources Much of the information presented in this book is basically to acquire an understanding of the integrated energy planning its design development implementation monitoring and feedback evaluation This book will be useful for those involved in energy activities and planning

*Alternative Energy Resources* Pankaj Pathak,Rajiv Ranjan Srivastava,2021-01-04 This book reviews alternative and renewable energy resources in order to pave the way for a more sustainable production in the future A multi disciplinary team of authors provides a comprehensive overview of current technologies and future trends including solar technologies wind energy hydropower microbial electrochemical systems and various biomass sources for biofuel production In addition the book focuses on solutions for developing countries Conventional energy sources are finite and estimates suggest that they will be exhausted within a few decades Finding a solution to this problem is a global challenge and developing countries in particular are still highly dependent on fossil fuels due to their rapidly growing populations accompanied by a huge growth in primary energy consumption Moreover the most common conventional energy sources coal and petroleum are non sustainable since their combustion exponentially increases greenhouse gas emissions As such there is a pressing need for clean energy based on alternative or renewable resources not only to ensure energy supplies at an affordable price but also to protect the environment

**Renewable** Jeremy Shere,2013-11-26 Where does the energy we use come from It s absolutely vital to every single thing we do every day but for most people it is utterly invisible Flick a switch and the lights go on It might as well be magic Science writer Jeremy Shere shows us in *Renewable The World Changing Power of Alternative Energy* that energy is anything but magical Producing it in fossil fuel form is a dirty expensive but also hugely profitable enterprise with enormous but largely hidden costs to the entire planet The cold hard fact is that at some point we will have wrung the planet dry of easily accessible sources of fossil fuel And when that time comes humankind will have no choice but to turn or more accurately return to other cleaner renewable energy sources What will those sources be How far have we come to realizing the technologies that will make these sources available To find the answers Shere began his journey with a tour of a traditional coal fueled power plant in his home state of Indiana He then continued on traveling from coast to coast as he spoke to scientists scholars and innovators He immersed himself in the green energy world visiting a solar farm at Denver s

airport attending the Wind Power Expo and a wind farm tour in Texas investigating turbines deep in New York City's East River and much more Arranged in five parts Green Gas Sun Wind Earth and Water Renewable tells the stories of the most interesting and promising types of renewable energy namely biofuel solar wind geothermal and hydropower But unlike many books about alternative energy Renewable is not obsessed with megawatts and tips for building home solar panels Instead Shere digs into the rich surprisingly long histories of these technologies bringing to life the pioneering scientists inventors and visionaries who blazed the way for solar wind hydro and other forms of renewable power and unearthing the curious involvement of great thinkers like Henry Ford Thomas Edison and Nicola Tesla We are at an important crossroads in the history of renewable technologies The possibilities are endless and enticing and it has become increasingly clear that renewable energy is the way of the future In Renewable Jeremy Shere's natural curiosity and serious research come together in an entertaining and informative guide to where renewable energy has been where it is today and where it's heading

**Solar Energy Update**, 1982-10

Multiple Choice Questions on Renewable Energy Arun K Tripathi, 2007-01-01

Multiple Choice Questions on Renewable Energy book contains over 1500 multiple choice questions covering various sectors of renewable energy including solar wind biomass biogas biofuels hydro energy from wastes hydrogen geothermal ocean tidal and waves The book has three levels of questions ranging from school to graduate levels A comprehensive overview of renewable energy development in India has also been presented This book is useful for academicians students pursuing engineering or agriculture related courses aspirants of various competitive exams professionals and stakeholders in the renewable energy sector It can also be used for quiz programmes organized in schools universities engineering institutions and on television

World Energy Resources Charles E. Brown, 2002-03-26 World Energy Resources is an explanatory energy survey of the countries and major regions of the world their geographic and economic settings and significant inter relationships This book attempts to combine several interacting energy themes that encompass a historical development energy issues and forecasts economic geography environmental programs and world energy use The main thrust of this book World Energy Resources is based on principles of energy science applied geology geophysics and other environmental sciences as they relate to the exploration exploitation and production of resources in this country and throughout the world This work is an analysis of the United States USA and world oil gas coal and alternative energy resources and their associated issues forecasts and related policy This book could not have been attempted without a broad geological exposure and international geographic awareness Much information is scattered among federal and state agencies schools and other institutions and this book has attempted to combine some of the vast information base This attempt can only skim the information surface at best but its regional and topical coverage is broad in scope Part I introduces conventional energy resources and their historical developments and includes chapters 1 to 7 The basic concepts and supporting facts on energy sources are presented here for the general education of energy analysts policy makers and scientists that desire a brief review of

advanced technologies and history      **RENEWABLE ENERGY SOURCES AND EMERGING TECHNOLOGIES** D.P. KOTHARI, K. C. SINGAL, RAKESH RANJAN, 2011-11-25 This book now in its Second Edition is an introductory text on renewable energy sources technologies and their applications a subject which is becoming increasingly important worldwide This edition includes two new chapters that introduce contemporary practices in renewable technologies It also discusses issues on environmental degradation and its reasons and remedies Besides this a large number of numerical problems to correlate theory with typical values and chapter end review questions are also given to reinforce the understanding of the subject matter Written in an accessible style this text is designed to serve the needs of undergraduate students in electrical mechanical and civil engineering disciplines It will also be useful for all higher level courses in energy programmes and multi disciplinary postgraduate courses in science and engineering NEW TO THIS EDITION Inclusion of two new chapters Hybrid Systems and Environment Energy and Global Climate Change A new section on Distributed Energy System and Dispersed Generation Appendices on Smart grid and grid system in India Remote village electrification with renewable energy sources Indian Electricity Act 2003 which supports exploration of Renewable Energy SALIENT FEATURES Provides balanced introduction to all aspects of solar energy conversion including PV technology Gives comprehensive coverage of all facets of wind power development Explains small hydropower projects with illustrative figures Emphasises the importance of availability of biofuel from Jatropa plant Special attention is given to gas hydrates and hydrogen energy sources Fuel cells are explained as per the latest technology available Harnessing of ocean energy is dealt with in detail Utilisation of biomass and solid waste for energy recovery is emphasised      **Renewable Energy Sources and Climate Change Mitigation** Ottmar Edenhofer, Ramón Pichs-Madruga, Youba Sokona, Kristin Seyboth, Susanne Kadner, Timm Zwickel, Patrick Eickemeier, Gerrit Hansen, Steffen Schlömer, Christoph von Stechow, Patrick Matschoss, 2011-11-21 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      Alternative Energy Sources Sophie Washburne, 2018-12-15 Climate change and sustainability are important topics in the 21st century Scientists have long warned that using fossil fuels to heat homes power vehicles and keep appliances running has negative effects on the environment but there are many economic and social issues to consider

when switching to alternative energy sources Readers discover the debates surrounding various forms of alternative energy the barriers that must be overcome in order to adopt them and the benefits they can provide Up to date statistics annotated quotes from experts full color photographs and informative sidebars help young adults form their own opinions about alternative energy sources

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