

Nuclear Technologies in a Sustainable Energy System

Selected Papers from an IIASA Workshop

Editors:

G. S. Bauer and A. McDonald



Springer-Verlag Berlin Heidelberg New York

Nuclear Technologies In A Sustainable Energy System

**Khin Zaw,Aung Myat,Md Raisul
Islam,Poh Tiong Keng,Aung Kywe
Nyunt**



Nuclear Technologies In A Sustainable Energy System:

Nuclear Technologies in a Sustainable Energy System W. Häfele, G.S. Bauer, A.A. Harms, A. McDonald, 2013-06-29 In March 1981 the International Institute for Applied Systems Analysis IIASA published the results of a global energy study looking fifty years into the future *Energy in a Finite World* A Global Systems Analysis Cambridge Massachusetts Ballinger Publishing Co 1981 Not surprisingly this book raises almost as many questions as it answers thus it defines a broad range of research topics that might be taken up by IIASA or other research institutions around the world A 25 27 May 1981 workshop at IIASA entitled *A Perspective on Adaptive Nuclear Energy Evolutions Towards a World of Neutron Abundance* was a beginning on one of these topics it was organized by Wolf Häfele Kernforschungsanlage Jülich Jülich Federal Republic of Germany and IIASA and Arkadius Archie Harms McMaster University Hamilton Ontario Canada The origin of this workshop was the effort within the IIASA energy study to explore possible sustainable global energy systems that might eventually replace the current consumptive system In investigating the possible contributions nuclear technologies might make to a sustainable energy system it had become clear that it is not so much particular distinct technologies within the nuclear family that should be examined as a question of particularly advantageous configurations of mutually complementary technologies Only when one considers exploiting a whole spectrum of arrangements of fission breeders fusion reactors and accelerators does the true potential of nuclear power become apparent [Principles of Sustainable Energy Systems, Third Edition](#) Charles F. Kutscher, Jana B. Milford, 2018-08-06 **PRINCIPLES OF SUSTAINABLE ENERGY SYSTEMS** Third Edition surveys the range of sustainable energy sources and the tools that engineers scientists managers and policy makers use to analyze energy generation usage and future trends The text provides complete and up to date coverage of all renewable technologies including solar and wind power biofuels hydroelectric nuclear ocean power and geothermal energy The economics of energy are introduced with the SAM software package integrated so students can explore the dynamics of energy usage and prediction Climate and environmental factors in energy use are integrated to give a complete picture of sustainable energy analysis and planning **Integrated Assessment of Sustainable Energy Systems in China, The China Energy Technology Program** B. Eliasson, Y. Lee, 2012-12-06 The purpose of the China Energy Technology Program CETP has been to take a holistic view of electricity generation in China with special emphasis on the economic and environmental impact of technology The program is a collaborative effort involving industry as leader and manager of the program researchers from academia and national research institutes and the stakeholders users or planners of the electricity market A power plant no matter of what kind is not a solitary unit which may be considered independently from its environment Modern society has been built on easy access to power it is now asking for environmentally clean power Clean power is the pathway that will lead to sustainability an extension of the concept of an environmentally clean future Progress toward a sustainable technical solution must include an evaluation of the environmental economic and societal impact of electrical power generation To

achieve the goals of the CETP program we wanted to go beyond what had been done in similar programs in the past Its organizers wanted the program not only to evaluate the overall impact of electricity generation but also do it in such a way that program results could be applied and adapted to different circumstances including countries other than China For this purpose we have developed a methodology and presented it on a DVD disc which the reader will find inside the back cover of this book The methodology is conceived to allow insights into the function of the program on various levels

Principles of Sustainable Energy Systems Charles F. Kutscher, Jana B. Milford, Frank Kreith, 2025-08-14 *Principles of Sustainable Energy Systems* provides students with a fundamental and practical understanding of the energy transition It discusses the design production and economics of energy conversion and storage technologies as well as requirements and technologies for the end use sectors of transportation buildings and industry This book begins by introducing students to the important field of sustainability and then presents comprehensive coverage of solar wind hydropower biomass and bio fuels geothermal nuclear and ocean based energy technologies This new edition features recent advances in batteries and other storage technologies electricity transmission electric vehicles and beneficial electrification and demand response in buildings as well as approaches for reducing emissions from shipping and aviation It introduces new material on low carbon building materials heat pumps and the practical design aspects of solar photovoltaic systems This book also covers economics and energy systems analysis methods such as life cycle assessment and greenhouse gas accounting including detailed examples of design and financial analysis using the System Advisor Model SAM This book is intended for upper level undergraduate and graduate engineering students taking courses in Renewable Energy Energy Systems and Energy Conversion Instructors will have access to a Solutions Manual and Figure Slides for their course

Solar Hydrogen Energy Systems Gabriele Zini, Paolo Tartarini, 2012-03-15 It is just a matter of time when fossil fuels will become unavailable or uneconomical to retrieve On top of that their environmental impact is already too severe Renewable energy sources can be considered as the most important substitute to fossil energy since they are inexhaustible and have a very low if none impact on the environment Still their unevenness and unpredictability are drawbacks that must be dealt with in order to guarantee a reliable and steady energy supply to the final user Hydrogen can be the answer to these problems This book presents the readers with the modeling functioning and implementation of solar hydrogen energy systems which efficiently combine different technologies to convert store and use renewable energy Sources like solar photovoltaic or wind technologies like electrolysis fuel cells traditional and advanced hydrogen storage are discussed and evaluated together with system management and output performance Examples are also given to show how these systems are capable of providing energy independence from fossil fuels in real life settings

Energy Herbert F. Mataré, 2018-01-31 This review is supposed to supply to the reader the necessary facts to judge where we stand today in terms of the energy crisis and what has to be done to save humanity from a catastrophic energy shortage

Small Modular Reactors as Renewable Energy Sources Bahman

Zohuri,2018-06-18 This book highlights Small Modular Reactors SMRs as a viable alternative to the Nuclear Power Plants NPPs which have been used as desalination plant energy sources SMRs have lower investment costs inherent safety features and increased availability compared to NPPs The unique and innovative approach to implementation of SMRs as part of Gen IV technology outlined in this book contributes to the application of nuclear power as a supplementary source to renewable energy Discusses Gen IV Power plants their efficiency cost effectiveness safety and methods to supply renewable energy Presents Small Modular Reactors as a viable alternative to Nuclear Power Plants Describes the benefits uses safety features and challenges related to implementation of Small Modular Reactors *Designing Renewable Energy Systems within Planetary Boundaries* Mika Järvinen,Hanna Paulomäki,2025-05-30 This open access book explores interdisciplinary sustainability for energy engineering students Future generations of engineers need to be game changers The book is designed to help future engineers redesign the world avoid harmful lockdowns and prevent the creation of new problems while transforming energy systems in economically profitable and ecologically sustainable ways It explains the principles of planetary boundaries addressing the most relevant ones throughout The book s focus is on the primary methods for producing renewable power and heating It discusses the fundamental technical and economic design principles involved The book also covers key energy storage solutions and includes an overview of the impacts of renewable energy production on ecosystems The book also serves as a useful guide for engineers working on renewable energy projects **Handbook of Clean Energy Systems, 6 Volume Set** Jinyue Yan,2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include Volume 1 Renewable Energy Biomass resources and biofuel production Bioenergy Utilization Solar Energy Wind Energy Geothermal Energy Tidal Energy Volume 2 Clean Energy Conversion Technologies Steam Vapor Power Generation Gas Turbines Power Generation Reciprocating Engines Fuel Cells Cogeneration and Polygeneration Volume 3 Mitigation Technologies Carbon Capture Negative Emissions System Carbon Transportation Carbon Storage Emission Mitigation Technologies Efficiency Improvements and Waste Management Waste to Energy Volume 4 Intelligent Energy Systems Future Electricity Markets Diagnostic and Control of Energy Systems New Electric Transmission Systems Smart Grid and Modern Electrical Systems Energy Efficiency of Municipal Energy Systems Energy Efficiency of Industrial Energy Systems Consumer Behaviors Load Control and Management Electric Car and Hybrid Car Energy Efficiency Improvement Volume 5 Energy Storage Thermal Energy Storage Chemical Storage Mechanical

Storage Electrochemical Storage Integrated Storage Systems Volume 6 Sustainability of Energy Systems Sustainability Indicators Evaluation Criteria and Reporting Regulation and Policy Finance and Investment Emission Trading Modeling and Analysis of Energy Systems Energy vs Development Low Carbon Economy Energy Efficiencies and Emission Reduction Key features Comprising over 3 500 pages in 6 volumes HCES presents a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems consolidating a wealth of information which is currently scattered across a wide variety of literature sources In addition to renewable energy systems HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal oil and gas energy storage systems mitigation technologies for the reduction of environmental pollutants and the development of intelligent energy systems Environmental social and economic impacts of energy systems are also addressed in depth Published in full colour throughout Fully indexed with cross referencing within and between all six volumes Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields Published in print and online The online version is a single publication i e no updates available for one time purchase or through annual subscription

Electric Renewable Energy Systems Muhammad H. Rashid, 2015-11-25 This derivative volume stemming from content included in our seminal Power Electronics Handbook takes its chapters related to renewables and establishes them at the core of a new volume dedicated to the increasingly pivotal and as yet under published intersection of Power Electronics and Alternative Energy While this re versioning provides a corollary revenue stream to better leverage our core handbook asset it does more than simply re package existing content Each chapter will be significantly updated and expanded by more than 50% and all new introductory and summary chapters will be added to contextualize and tie the volume together Therefore unlike traditional derivative volumes we will be able to offer new and updated material to the market and include this largely original content in our ScienceDirect Energy collection Due to the inherently multi disciplinary nature of renewables many engineers come from backgrounds in Physics Materials or Chemical Engineering and therefore do not have experience working in depth with electronics As more and more alternative and distributed energy systems require grid hook ups and on site storage a working knowledge of batteries inverters and other power electronics components becomes requisite Further as renewables enjoy broadening commercial implementation power electronics professionals are interested to learn of the challenges and strategies particular to applications in alternative energy This book will bring each group up to speed with the primary issues of importance at this technological node This content clarifies the juncture of two key coverage areas for our Energy portfolio alternative sources and power systems It serves to bridge the information in our power engineering and renewable energy lists supporting the growing grid cluster in the former and adding key information on practical implementation to the latter Provides a thorough overview of the key technologies methods and challenges for implementing power electronics in alternative energy systems for optimal power generation Includes hard to find information on how to

apply converters inverters batteries controllers and more for stand alone and grid connected systems Covers wind and solar applications as well as ocean and geothermal energy hybrid systems and fuel cells *Handbook of Smart Energy Systems* Michel Fathi, Enrico Zio, Panos M. Pardalos, 2023-08-04 This handbook analyzes and develops methods and models to optimize solutions for energy access for industry and the general world population alike in terms of reliability and sustainability With a focus on improving the performance of energy systems it brings together state of the art research on reliability enhancement intelligent development simulation and optimization as well as sustainable development of energy systems It helps energy stakeholders and professionals learn the methodologies needed to improve the reliability of energy supply and demand systems achieve more efficient long term operations deal with uncertainties in energy systems and reduce energy emissions Highlighting novel models and their applications from leading experts in this important area this book will appeal to researchers students and engineers in the various domains of smart energy systems and encourage them to pursue research and development in this exciting and highly relevant field Introduction to Energy Systems Ibrahim Dincer, Dogan Erdemir, 2023-09-25 Introduction to Energy Systems An in depth introduction to applications and analysis of energy systems covering both renewable and traditional types of energy systems In Introduction to Energy Systems the content is uniquely designed to cover comprehensive descriptions and assessments of all the key types of energy sources including fossil fuels based nuclear and renewable energy systems with a special focus on their design analysis and assessment technical and operational aspects and applications As a comprehensive resource the work also introduces many topics not typically covered in other energy system textbooks such as system design and assessment through exergy environmental impact assessment of energy systems and life cycle assessment From a theory standpoint the book provides context on the importance of energy and the issues related to energy we face in our world today with close attention paid to key environmental and sustainability issues Furthermore the book includes illustrative examples and problems and case studies To aid in seamless reader comprehension helpful questions and problems are included at the end of each chapter Sample topics covered in Introduction to Energy Systems include Fundamental concepts and thermodynamic principles traditional and innovative systems and detailed applications in renewable energy systems including solar wind geothermal biomass hydro and marine energies Different types of fuels used in energy systems today discussions of their combustion characteristics with a clear analysis of each one and analyses and assessments through energy and exergy approaches Industrial ecology and life cycle assessment with the intention of clearly assessing the environmental impacts of energy systems How to write balance equations for mass energy entropy and exergy calculate the required capacities and find the energy and exergy efficiencies and or energetic and exergetics coefficient of performance values Introduction to Energy Systems serves as a valuable learning resource for both undergraduate and graduate students studying courses such as Introduction to Energy Systems Energy System Design Renewable Energy Energy Sustainability and Fundamentals of Renewable Energy *Long-Term Integration of Renewable*

Energy Sources into the European Energy System The LTI-Research Group,2012-12-06 A sustainable European energy system mitigating climate change and solving a number of other key environmental problems will require massive reliance on renewable energy sources combined with a sharp increase in energy productivity Considering that most of the technologies necessary for such a development are already available today s most important questions are How can these technologies be integrated into the European energy system What are the costs and benefits of such a strategy What are the major bottlenecks and obstacles to such a development What measures are necessary to support this development In the book a sustainable scenario and a fair market scenario are developed as a means to demonstrate that concepts for a sustainable future European energy supply are feasible Sustainable energy supply in Asia Pradeep Chaturvedi,1997 **District**

Cooling Systems Khin Zaw,Aung Myat,Md Raisul Islam,Poh Tiong Keng,Aung Kywe Nyunt,2025-05-09 This book draws on the authors industry and academic expertise to explain the theory and practice of district cooling systems DCS The in depth exploration of the design and development of DCS presents detailed best practices for their optimization in both the development and operation phases Readers will gain in depth practical knowledge on all areas and considerations related to DCS technology s best practices including current practical research areas and future potential research areas This book addresses five areas related to DCS the fundamentals of DCS technology design optimization for development purposes real time optimization for daily operations techno commercial decision making framework and industry best practice This information is presented through analyses of technological progress to date case studies of current operations and in depth discussions of the theoretical bases and commercial technical and environmental benefits Through this book readers can recognize and apply best practices for the design development and operation of an optimal DCS design based on multiple factors including financial analysis energy efficiency considerations and practical operation issues This will enable them to contribute to national and international sustainable development goals regarding sustainable cities and climate action As this book provides both industry know how and future research directions related to DCS it is invaluable for DCS industry professionals and advanced undergraduate and postgraduate engineering students who aim to enter this industry and develop leading highly efficient DCS systems Overall it is a vital resource for anyone involved in the planning execution and management of DCS projects Encyclopedia of Renewable Energy, Sustainability and the Environment ,2024-08-09

Encyclopedia of Renewable Energy Sustainability and the Environment Four Volume Set comprehensively covers all renewable energy resources including wind solar hydro biomass geothermal energy and nuclear power to name a few In addition to covering the breadth of renewable energy resources at a fundamental level this encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental economic and policy standpoints This book will serve as an ideal introduction to any renewable energy source for students while also allowing them to learn about a topic in more depth and explore related topics all in a single resource Instructors researchers and industry

professionals will also benefit from this comprehensive reference Covers all renewable energy technologies in one comprehensive resource Details renewable energies processes from production to utilization in a single encyclopedia Organizes topics into concise consistently formatted chapters perfect for readers who are new to the field Assesses economic challenges faced to implement each type of renewable energy Addresses the challenges of replacing fossil fuels with renewables and covers the environmental impacts of each renewable energy

Risk Management Gerald Mars, David T. H. Weir, 2019-04-08 First published in 2000 Risk Management is a two volume set comprised of the most significant and influential articles by the leading authorities in the studies of risk management The volumes includes a full length introduction from the editor an internationally recognized expert and provides an authoritative guide to the selection of essays chosen and to the wider field itself The collections of essays are both international and interdisciplinary in scope and provide an entry point for investigating the myriad of study within the discipline

Informing Energy and Climate Policies Using Energy Systems Models George Giannakidis, Maryse Labriet, Brian Ó Gallachóir, GianCarlo Tosato, 2015-04-06 This book highlights how energy system models are used to underpin and support energy and climate mitigation policy decisions at national multi country and global levels It brings together for the first time in one volume a range of methodological approaches and case studies of good modeling practice on a national and international scale from the IEA ETSAP energy technology initiative It provides insights for the reader into the rich and varied applications of energy system models and the underlying methodologies and policy questions they can address The book demonstrates how these models are used to answer complex policy questions including those relating to energy security climate change mitigation and the optimal allocation of energy resources It will appeal to energy engineers and technology specialists looking for a rationale for innovation in the field of energy technologies and insights into their evolving costs and benefits Energy economists will gain an understanding of the key future role of energy technologies and policy makers will learn how energy system modeling teams can provide unique perspectives on national energy and environment challenges The book is carefully structured into three parts which focus on i policy decisions that have been underpinned by energy system models ii specific aspects of supply and end use sector modeling including technology learning and behavior and iii how additional insights can be gained from linking energy system models with other models The chapters elucidate key methodological features backed up with concrete applications The book demonstrates the high degree of flexibility of the modeling tools used to represent extremely different energy systems from national to global levels

107-2 Hearings: Energy and Water Development Appropriations For 2003, Part 4, 2002, *, 2002

The Clean Energy Transition Daniel J. Fiorino, 2022-09-12 Is the goal of a transition to clean energy at all realistic If so how could it be accomplished Climate change poses a formidable challenge for twenty first century governments Unless they can move to a clean energy system built on efficiency renewables electrification and possibly complementary technologies like nuclear energy and carbon capture and storage it will be all but impossible to

avoid the worst impacts of climate change In this book Daniel Fiorino provides a comprehensive introduction to the politics and policies of a clean energy transition and how it may unfold nationally and globally Across its nine chapters he explores the current energy landscape and the different pathways and pitfalls on the road to decarbonization All scenarios for decarbonizing he argues rely on aggressive efficiency the rapid scale up of renewables and the electrification of most of what is left Yet this transition has to be accelerated and done effectively There is little time left for second chances if we are to decarbonize later this century The Clean Energy Transition will be an indispensable resource for students of energy politics environmental studies and public policy as well as anyone interested in the energy issues of the day

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