

Knowledge Exchange Assistant In Hydropower And Pumped

"Renewable Energy and Green Technology: Principles and Practices emerge as per the present need to understand the principles and utilize renewable energy and green technology to minimize dependency on fossil fuels in global development. Renewable energy is the best and most abundant source of energy as an alternate resource. There is a 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, etc. Hence, encouraging renewable energy uses could save our tomorrow from the climate change perspective and sustainable food production. This book promotes the exchange of ideas, policy formulation, and collective action to ensure a smooth transition to renewable energy. This book describes the technological interventions for reducing environmental and economic damage resulting from the use of conventional energy sources. In this book, the focus has been given to utilizing various renewable energy sources in diverse sectors. It also elaborates the descriptive methodology of different renewable energies, accompanied by figures and tables. It includes biogas energy plant, gasifier technologies, and hydropower technologies, etc, with their application. Further, it contains information for understanding energy concepts and significant advantages of the energy resources for the future world. Lastly, this book will provide instant access to comprehensive, cutting-edge knowledge, making it possible for academic researchers to utilize this ever-growing wealth of information. Key features The book emphasizes the understanding principles and utilization of renewable energy and green technology to minimize dependency on fossil fuels in the era of global development. The book focused on renewable energy in renewable energy with principles and practices in relation to climate change This book highlighted advanced approaches for sustainable renewable energy sources The methodology for various aspect of renewable energy are illustrated with figures and charts Uses of agriculture and forestry sector as a green technology are also illustrated/mentioned This book potentially will helpful for policymakers in the field of renewable energy"--

The catchment area of the Mekong River and its tributaries extends from China, through Burma/Myanmar, Thailand, Laos, Cambodia and Vietnam. The water resources of the Mekong region - from the Irrawaddy and Nu-Salween in the west, across the Chao Phraya to the Mekong and Red River in the east- are increasingly contested. Governments, companies, and banks are driving new investments in roads, dams, diversions, irrigation schemes, navigation facilities, power plants and other emblems of conventional 'development'. Their plans and interventions should provide some benefits, but also pose multiple burdens and risks to millions of people dependent on wetlands, floodplains and aquatic resources, in particular, the wild capture fisheries of rivers and lakes. This book examines how large-scale projects are being proposed, planned, and built. How are such projects contested and how do specific governance regimes influence decision making? The book also highlights the emergence of new actors, rights and trade-off debates, and the social and environmental consequences of 'water resources development'. It shows how diverse, and often antagonistic, ideologies and interests are contesting for legitimacy. It argues that the distribution of decision-making political, and discursive power influences how the waterscapes of the region will ultimately look and how benefits, costs and risks will be distributed. These issues are crucial for the transformation of waterscapes and the prospects for democratizing water governance in the region. The book is part of the action-research of the M-POWER (Mekong Program on Water, Environment and Resilience) knowledge network. Published with IFAD, CGIAR Challenge Program on Water & Food, M-POWER, Project ECHL-EAU and HEINRICH BOLL STIFTUNG

Implementing the Water-Energy-Food- Ecosystems Nexus and Achieving the Sustainable Development Goals

Analysis of Environmental Issues Related to Small-scale Hydroelectric Development, I

Principles and Practices

Alternative Worlds : a Publication of the National Intelligence Council

Energy and Water Development Appropriations for 1995

International Journal on Hydropower & Dams

Low-carbon technologies differ significantly in terms of their practical effectiveness for addressing climate change. And yet, this topic is rarely discussed! This is unfortunate given that understanding these differences is essential for the efficient use of our limited resources. Most local/national governments around the globe are pushing for the increased implementation of technologies such as solar, wind, battery storage, biofuels, hydropower, electric cars, etc. A large amount of information is available on these technologies. However, the comparison of these technologies in terms of their abilities to address the critical challenges associated with this complex problem is missing. Dr. Tushar Choudhary, a highly awarded technology specialist with twenty-five years of energy R&D experience, has addressed the above important gap by providing a systematic analysis on the following topics: Critical challenges associated with the targeted CO2 emission reduction Comparison of the technologies in terms of their abilities to address the critical challenges Prioritization of the technologies based on this comparison Being aware of the significant data ambiguity in this field, Choudhary has specifically relied on data from the most credible sources available for developing the analysis presented in this book. The concise analysis should benefit readers of all interest levels- from the mildly curious to those deeply involved with climate change mitigation. The book provides new insights into the widescale implementation of low-carbon technologies and should enable more informed climate change mitigation discussions.

Issues for 1973- cover the entire IEEE technical literature.

Insights from Agriculture, Health, Environment, and Energy

Science, Technology, and Innovation for Sustainable Development Goals

Protection at Hydropower Facilities

Organization Descriptions and Cross-references

Monitor

Waterpower '79

Analysis of Environmental Issues Related to Small-scale Hydroelectric Development, IDredgingFish Passage

TechnologiesProtection at Hydropower FacilitiesOffice of Technology AssessmentThe China Business

ReviewEnergy and Water Development Appropriations for 1995Hearings Before a Subcommittee of the

Committee on Appropriations, House of Representatives, One Hundred Third Congress, Second SessionEnergy

and Water Development Appropriations for 1994Hearings Before a Subcommittee of the Committee on

Appropriations, House of Representatives, One Hundred Third Congress, First SessionEnergy Abstracts for

Policy AnalysisThe International Journal on Hydropower & DamsSelected Water Resources

Abstracts
Preparation and Submission of Budget Estimates
Contested Waterscapes in the Mekong Region
"Hydropower, Livelihoods and Governance"
Routledge

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.

Local Electricity Markets

An International Conference on Small-scale Hydropower, October 1-3, 1979 : Executive Summary

The Third Industrial Revolution

The China Business Review

The International Journal on Hydropower & Dams

Integrated Water and Land Management Research and Capacity Building Priorities for Ethiopia

The Industrial Revolution, powered by oil and other fossil fuels, is spiraling into a dangerous endgame. The price of gas and food are climbing, unemployment remains high, the housing market has tanked, consumer and government debt is soaring, and the recovery is slowing. Facing the prospect of a second collapse of the global economy, humanity is desperate for a sustainable economic game plan to take us into the future. Here, Jeremy Rifkin explores how Internet technology and renewable energy are merging to create a powerful "Third Industrial Revolution." He asks us to imagine hundreds of millions of people producing their own green energy in their homes, offices, and factories, and sharing it with each other in an "energy internet," just like we now create and share information online. Rifkin describes how the five-pillars of the Third Industrial Revolution will create thousands of businesses, millions of jobs, and usher in a fundamental reordering of human relationships, from hierarchical to lateral power, that will impact the way we conduct commerce, govern society, educate our children, and engage in civic life. Rifkin's vision is already gaining traction in the international community. The European Union Parliament has issued a formal declaration calling for its implementation, and other nations in Asia, Africa, and the Americas, are quickly preparing their own initiatives for transitioning into the new economic paradigm. The Third Industrial Revolution is an insider's account of the next great economic era, including a look into the personalities and players — heads of state, global CEOs, social entrepreneurs, and NGOs — who are pioneering its implementation around the world.

Technology Transfer and Innovation for Low-Carbon Development

Selected Water Resources Abstracts

Bulletin of the Atomic Scientists

Geographic Distribution of Federal Funds in Texas

Peterson's Guide to Graduate Programs in Engineering and Applied Sciences

Hearings Before a Subcommittee of the Committee on Appropriations, House of Representatives, One Hundred Third Congress, First Session

Man-made Catastrophes and Risk Information Concealment

Local Electricity Markets introduces the fundamental characteristics, needs, and constraints shaping the design and implementation of local electricity markets. It addresses current proposed local market models and lessons from their limited practical implementation. The work discusses relevant decision and informatics tools considered important in the implementation of local electricity markets. It also includes a review on management and trading platforms, including commercially available tools. Aspects of local electricity market infrastructure are identified and discussed, including physical and software infrastructure. It discusses the current regulatory frameworks available for local electricity market development internationally. The work concludes with a discussion of barriers and opportunities for local electricity markets in the future. Delineates key components shaping the design and implementation of local electricity market structure Provides a coherent view on the enabling infrastructures and technologies that underpin local market expansion Explores the current regulatory environment for local electricity markets drawn from a global panel of contributors Exposes future paths toward widespread implementation of local electricity markets using an empirical review of barriers and opportunities Reviews relevant local electricity market case studies, pilots and demonstrators already deployed and under implementation

This book discusses the risks of information concealment in the context of major natural or industrial disasters – offering detailed descriptions and analyses of some 25 historical cases (Three Mile Island nuclear accident, Bhopal disaster, Challenger Space Shuttle explosion, Chernobyl nuclear disaster, Deepwater Horizon oil spill, Fukushima-Daiichi nuclear disaster, Enron's bankruptcy, Subprime mortgage crisis, Worldwide Spanish flu and SARS outbreaks, etc.) and applying these insights to selected on-going cases where such information concealment is suspected. Some successful examples of preventive anti-concealment practice are also presented. In the book, the term 'concealment' is used to represent the two distinct behaviors uncovered in the investigations: (i) facts and information about an organization and its functioning being hidden from those that need them – here the concealment can be due to various factors, such as complexity and miscommunication, to name but two – and (ii) the conscious and deliberate action of keeping important information secret or misrepresenting it. This second meaning makes up a surprisingly important part of the evidence presented. Accordingly, emphasis has been put on this second aspect and the approach is more pragmatic than academic, remaining focused on evidence-based practical and useful factors. It raises awareness and provides valuable lessons for decision-makers, risk specialists and responsible citizens alike. This work is also intended as a fact-based reference work for future academic and scholarly investigations on the roots of the problem, in particular regarding any psychological or sociological modeling of human fallibility.

Agricultural marketing service, Commodity exchange authority, Economic research service, Foreign agricultural service, Agricultural stabilization and conservation service, Statistical reporting service

Hydro Review

Preparation and Submission of Budget Estimates

Yearbook of International Organizations 2013-2014

Government Reports Annual Index

Case Studies of Major Disasters and Human Fallibility

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

Volume 1 (A and B) of the Yearbook of International Organizations covers international organizations throughout the world, comprising their aims, activities and events

Proceedings of a MoWR/EARO/IWMI/ILRI International Workshop Held at ILRI, Addis Ababa, Ethiopia, 2-4 December 2002

Water Justice

Index to IEEE Publications

Critical Comparison of Low-Carbon Technologies

How Lateral Power Is Transforming Energy, the Economy, and the World

Energy and Water Development Appropriations for 1994

An overview of critical conceptual approaches to water justice, illustrated with global historic and contemporary case studies of socio-environmental struggles.

This report is intended to stimulate thinking about the rapid and vast geopolitical changes characterizing the world today and possible global trajectories over the next 15 years. As with the NIC's previous Global Trends reports, we do not seek to predict the future, which would be an impossible feat, but instead provide a framework for thinking about possible futures and their implications. In-depth research, detailed modeling and a variety of analytical tools drawn from public, private and academic sources were employed in the production of Global Trends 2030. NIC leadership engaged with experts in nearly 20 countries, from think tanks, banks, government offices and business groups, to solicit reviews of the report.

Dredging

Energy Fact Book

A Practical Guide to Prioritizing Energy Technologies for Climate Change Mitigation

International Energy Outlook

Geographic Distribution of Federal Funds in Georgia

Global Trends 2030

Includes data for the executive branch of the Federal Government only.

This publication covers global megatrends for the next 20 years and how they will affect the United States. This is the fifth installment in the National Intelligence Council's series aimed at providing a framework for thinking about possible futures and their implications. The report is intended to stimulate strategic thinking about the rapid and vast geopolitical changes characterizing the world today and possible global trajectories during the next 15-20 years by identifying critical trends and potential discontinuities. The authors distinguish between megatrends, those factors that will likely occur under any scenario, and game-changers, critical variables whose trajectories are far less certain. NIC 2012-001. Several innovations are included in Global Trends 2030, including: a review of the four previous Global Trends reports, input from academic and other experts around the world, coverage of disruptive technologies, and a chapter on the potential trajectories for the US role in the international system and the possible the impact on future international relations. Table of Contents: Introduction 1 Megatrends 6 Individual Empowerment 8 Poverty Reduction 8 An Expanding Global Middle Class 8 Education and the Gender Gap 10 Role of Communications Technologies 11 Improving Health 11 A MORE CONFLICTED IDEOLOGICAL LANDSCAPE 12 Diffusion of Power 15 THE RISE AND FALL OF COUNTRIES: NOT THE SAME OLD STORY 17 THE LIMITS OF HARD POWER IN THE WORLD OF 2030 18 Demographic Patterns 20 Widespread Aging 20 Shrinking Number of Youthful Countries 22 A New Age of Migration 23 The World as Urban 26 Growing Food, Water, and Energy Nexus 30 Food, Water, and Climate 30 A Brighter Energy Outlook 34 Game-Changers 38 The Crisis-Prone Global Economy 40 The Plight of the West 40 Crunch Time Too for the Emerging Powers 43 A Multipolar Global Economy: Inherently More Fragile? 46 The Governance Gap 48 Governance Starts at Home: Risks and Opportunities 48 INCREASED FOCUS ON EQUALITY AND OPENNESS 53 NEW GOVERNMENTAL FORMS 54 A New Regional Order? 55 Global Multilateral Cooperation 55 The Potential for Increased Conflict 59 INTRASTATE CONFLICT: CONTINUED DECLINE 59 Interstate Conflict: Chances Rising 61 Wider Scope of Regional Instability 70 The Middle East: At a Tipping Point 70 South Asia: Shocks on the Horizon 75 East Asia: Multiple Strategic Futures 76 Europe: Transforming Itself 78 Sub-Saharan Africa: Turning a Corner by 2030? 79 Latin America: More Prosperous but Inherently Fragile 81 The Impact of New Technologies 83 Information Technologies 83 AUTOMATION AND MANUFACTURING TECHNOLOGIES 87 Resource Technologies 90 Health Technologies 95 The Role of the United States 98 Steady US Role 98 Multiple Potential Scenarios for the United States' Global Role 101 Alternative Worlds 107 Stalled Engines 110 FUSION 116 Gini-out-of-the-Bottle 122 Nonstate World 128 Acknowledgements 134 GT2030 Blog References 137 Audience: Appropriate for anyone, from businesses to banks, government agencies to start-ups, the technology sector to the teaching sector, and more. This publication helps anticipate where the world will be: socially, politically, technologically, and culturally over the next few decades. Keywords: Global Trends 2030 Alternative Worlds, global trends 2030, Global Trends series, National Intelligence Council, global trajectories, global megatrends, geopolitics, geopolitical changes Energy and Water Development Appropriations for 1996: Corps of Engineers

Energy Abstracts for Policy Analysis

Fish Passage Technologies

Technology Transfer and Innovation for Low-Carbon Development

Future of solar photovoltaic

After the United Nations adopted the 17 Sustainable Development Goals (SDGs) to "end poverty, protect the planet, and ensure prosperity for all," researchers and policy makers highlighted the importance of targeted investment in science, technology, and innovation (STI) to make tangible progress. Science, Technology, and Innovation for Sustainable Development Goals showcases the roles that STI solutions can play in meeting on-the-ground socio-economic and environmental challenges among domestic and international organizations concerned with the SDGs in three overlapping areas: agriculture, health, and environment/energy. Authors and researchers from 31 countries tackle both big-picture questions, such as scaling up the adoption and diffusion of new sustainable technologies, and specific, localized case studies, focusing on developing and middle-income countries and specific STI solutions and policies. Issues addressed include renewable energy, automated vehicles, vaccines, digital health, agricultural biotechnology, and precision agriculture. In bringing together diverse voices from both policy and academic spheres, this volume provides practical and relevant insights and advice to support policy makers and managers seeking to enhance the roles of STI in sustainable development.

The book's primary intention is to serve as a roadmap for professionals working in developing countries interested in the Nexus Water-Energy-Food-Ecosystems (WEFE) approach. The book shows a multi-disciplinary approach, showcasing the importance of the proper use of Nexus WEFE when implementing certain development programs in regions around the globe. It can be presented as a manual for an individual that either wishes to implement intervention projects following the NEXUS approach or students interested in cooperation and development. The book begins with a general explanation of the theoretical concepts and implementation processes of Nexus WEFE and continues getting into case studies, explaining the importance of proper implementation and potential drawbacks and solutions to them. This book has a particular focus on the European Union cooperation policies when implementing such an approach in developing countries.

"Hydropower, Livelihoods and Governance"

Renewable Energy and Green Technology

Hearings Before a Subcommittee of the Committee on Appropriations, House of
Representatives, One Hundred Third Congress, Second Session

Federal Register

Alternative Worlds

Contested Waterscapes in the Mekong Region