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# Hydropower Projects Environmental Social Impacts

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Assessing the Environmental, Social and Economic Impacts of Energy Pathways in Albania

Doing A Dam Better

Hydropower in the New Millennium

DAC Guidelines and Reference Series Applying Strategic Environmental Assessment

Good Practice Guidance for Development Co-operation

Sharing Experience from a Medium-Sized Dam Project in Vietnam

Evolution of Dam Policies

ASSESS THE ENVIRONMENTAL & SOC

The Social Challenges and Opportunities of Low Carbon Development

Managing Environmental and Social Impacts of Hydropower in Bhutan

Alternative Energy and Shale Gas Encyclopedia

An Interface of Technology and Human Issues

Environmental ScienceBites

Proceedings of the 4th International Conference Hydropower, Bergen, Norway, 20-22

June 2001

Renewable Energies for Central Asia Countries: Economic, Environmental and Social Impacts

The Large Dam Dilemma

Transboundary Waters, Infrastructure Development and Public Private Partnership Dilemmas of hydropower development in Vietnam

Where Global Sustainability Conventions Matter

An Exploration of the Impacts of Hydro Projects on People and the Environment in China

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Knowing the Salween River: Resource Politics of a Contested Transboundary River  
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Cumulative Impact Study of Lower Subansiri Hydropower Dam In India  
Political, Socio-economic and Environmental Perspectives

*Hydropower Projects  
Environmental Social  
Impacts*

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**ADELAIDE ALEXANDER**

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Springer Science & Business Media  
Assessing the Environmental Impacts of  
Hydropower Projects  
Springer Nature  
Assessing the Environmental, Social and  
Economic Impacts of Energy Pathways in

Albania OECD Publishing

This book presents the results of the  
Interdisciplinary Research Group  
"Society - Water - Technology" of the  
Berlin-Brandenburg Academy of  
Sciences and Humanities. It describes  
interdisciplinary evaluation criteria for  
major water engineering projects  
(MWEPs) and portrays an application to

the Lower Jordan Valley (Middle East) and the Fergana Valley (Central Asia). Both areas are characterised by transboundary conflicts, by challenges due to demographic and climate change and by political and societal pressures. Based on the findings, the book provides recommendations for science and political decisions makers as well as for international financing institutions. In addition, it outlines research gaps from an interdisciplinary perspective. In the past, MWEs have been used as an instrument to cope with the demands of growing populations and to enhance development progress. Experiences with MWEs have shown that a purely technical approach has not always brought about the desired results. In many cases, MWEs have even resulted

in negative implications for society and environment. Therefore, improved management strategies and enhanced technologies for a sustainable water resource management system are a prerequisite to meet present and future challenges. And, moreover, the continuous evaluation and optimisation of these measures is, likewise, a must.

**Doing A Dam Better** The Ohio State University

New technologies will play a crucial role in the development of a market of "sustainable energy products" that should grow in a competitive way to stand against the challenge of change. This book suggests learn from Central Asian countries the potentiality of renewable in such areas as an option. The book investigates policy option for

new markets for renewable technology, and it tests the economic path for the Kyoto protocol implementation.

### **Hydropower in the New Millennium**

Eburon Uitgeverij B.V.

The World Commission on Dams (WCD) report (2000) "Dams and Development: A New Framework for Decision-Making" set a landmark in the ongoing controversy over large dams. Now that more than ten years have passed, one has to realize that the WCD norms matter. However, their real chance of becoming implemented relies on whether their core values, strategic priorities and guidelines are accepted by national decision-makers and are translated into official policies and practices. The book's major concern is whether the big hydropower states have

improved their standards for environment and resettlement, and whether international standards are applied or exist only on paper. The introductory and synthesis chapters present the methodological approach and discuss the findings. Other chapters analyze changes in dam policies in the big hydropower states Brazil, China, India and Turkey; the role of non-governmental organizations in advocating against the Turkish Ilisu Dam project on the Tigris River; the strategies of International Rivers and World Wildlife Fund for Nature in the global hydropower game; the policies of the German government and its positioning in the dam debate, and the engagement of Chinese actors in building the Bui Dam (Ghana) and the Kamchay Dam

(Cambodia).

**DAC Guidelines and Reference Series Applying Strategic Environmental Assessment Good Practice Guidance for Development Co-operation** SAGE Publishing India

This dissertation, "Assess the Environmental and Social Sustainability of the Three Gorges Dam Project" by Ho-ying, Chan, [redacted], was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract:

Abstract of dissertation entitled Assess the Environmental and Social Sustainability of the Three Gorges Dam Project Submitted by Chan Ho Ying for the degree of Master of Arts at The University of Hong Kong in June 2004  
The Three Gorges Dam is the world largest hydroelectric project. It is also an ambitious project that causes much concern on its impacts on the society and environment of the region. This project would benefit in flood control, hydropower generation, water supply and navigation improvement. But, it may also bring huge effects in terms of social and environmental impacts. This thesis is an attempt to examine and review the environmental and social sustainability of this dam project. In examining the environmental sustainability, the thesis

focuses on the environmental risks or benefits of the project. The impacts on climate, water quality and wildlife have been studied. The dam safety issue is also investigated. As the water level will eventually rise to 175 meters, the impacts on cultural and historical heritages are reviewed as well. In evaluating the social sustainability of this project, the current state of the resettlement project is investigated. The resettlers' living condition and the employment situation in the resettled areas are reviewed. Also, the public participation and the legal protection of the resettlers have been studied. After analyzing the environmental and social sustainability of the project, it is found that the Three Gorges Dam has the potential to promote sustainable

development, but the environmental and social costs make it difficult. Therefore, some alternatives are examined. It includes constructing dam of the upper reaches, nuclear power plants and dyke and channel improvement. Finally, it is concluded with some recommendations that may help to avoid unsustainable development and the government should take efforts to assure the natural, social and economic systems to interact in a harmonious way.

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development projects - Environmental aspects - China - Yangtze River Gorges Migration, Internal - China - Yangtze River Gorges

Sharing Experience from a Medium-Sized Dam Project in Vietnam Routledge

Transboundary Waters, Infrastructure Development and Public Private Partnership offers a cogent introduction to PPPs involving transboundary international waters which require particular attention given their huge potential for social and environmental impact.

*Evolution of Dam Policies* CRC Press

This book was written by undergraduate students at The Ohio State University (OSU) who were enrolled in the class Introduction to Environmental Science. The chapters describe some of Earth's

major environmental challenges and discuss ways that humans are using cutting-edge science and engineering to provide sustainable solutions to these problems. Topics are as diverse as the students, who represent virtually every department, school and college at OSU. The environmental issue that is described in each chapter is particularly important to the author, who hopes that their story will serve as inspiration to protect Earth for all life.

ASSESS THE ENVIRONMENTAL & SOC  
Academic Press

The Mekong Basin is home to some 70 million people, for whom this great river is a source of livelihoods, the basis for their ecosystems and a foundation of their economies. But the Mekong is also currently undergoing enormous social,



economic, and ecological change of which hydropower development is a significant driver. This book provides a basin-wide analysis of political, socio-economic and environmental perspectives of hydropower development in the Mekong Basin. It includes chapters from China, Thailand, Laos, Cambodia and Vietnam. Written by regional experts from some of the region's leading research institutions, the book provides an holistic analysis of the shifting socio-political contexts within which hydropower is framed, legitimised and executed. Drawing heavily on political ecologies and political economics to examine the economic, social, political and ecological drivers of hydropower, the book's basin wide approach illuminates how

hydropower development, and its benefits and impacts, are linked multilaterally across the basin. The research in the book is derived from empirical research conducted from 2012-2013 as part of the CGIAR Challenge Program on Water and Food's Mekong programme.

### **The Social Challenges and Opportunities of Low Carbon Development** CRC Press

The first mega-scale hydro project to be built in the sub-Arctic, capable of generating as much electricity as fifteen nuclear power plants, its impact includes disruption of vast areas in an extremely fragile ecosystem as well as displacement of native peoples and the introduction of dangerous levels of mercury into their food supply. The

debate over these complex environmental issues has been further complicated by political issues stemming from the importance of the project to the economic development of Quebec and the sale of at least ten percent of the electricity generated the United States. The contributors examine core issues of the controversy both in relation to James Bay and to other large hydroelectric projects, such as the Aswan dam in Egypt and the Three Gorges dam in China. Providing insights from an unusual variety of disciplines, the authors offer important considerations that must be taken into account as Quebec assesses additional phases of hydroelectric development of the watershed east of Hudson Bay. Contributors include Raymond B.

Coppinger (Hampshire College), Bill Dale Roebuck (Dartmouth Medical School), Will Ryan (Hampshire College), Adrian Tanner (Memorial University), Stanley L. Warner (Hampshire College), Kessler E. Woodward (University of Alaska), and Oran R. Young (Dartmouth College). Managing Environmental and Social Impacts of Hydropower in Bhutan  
Springer Nature

The environmental and social impacts of large hydropower have received considerable attention in Lao PDR due to the government's policy for hydropower as one of the main platforms for economic development of the country. Whilst small-scale hydropower projects are not likely to have the same impacts as large hydropower projects, they can still have significant impacts. These

guidelines were prepared as part of the CGIAR Challenge Program for Water and Food project MK14. The need for such guidelines to improve the environmental and social management and performance of small-scale hydropower development in Lao PDR, arose out of a case study carried out by LIRE (Lao Institute for Renewable Energy) on Small hydropower in Lao PDR and the subsequent focus group discussions held in August 2013.

### **Alternative Energy and Shale Gas**

**Encyclopedia BoD** - Books on Demand Hydropower is one of the biggest controversies in Vietnam in recent decades because of its adverse environmental and social consequences, especially negative impacts on displaced people who make way for hydropower

dam construction. This book explains the controversies related to hydropower development in Vietnam in order to make policy recommendations for equitable and sustainable development. The book focuses on the analysis of emerging issues, such as land acquisition, compensation for losses, displacement and resettlement, support for livelihood development, and benefit sharing from hydropower development. The analysis emphasizes the role of different stakeholders in the decision-making process for hydropower development in Vietnam as a means to find a better governance model.

*An Interface of Technology and Human Issues* Cambridge University Press

In this work, starting from why dams are required, the various impacts that are

caused due to series of dams in the same river and how these impacts affect the downstream and the importance of addressing these cumulative impacts have been discussed. The study includes how application of models can simulate some water quality scenarios and how far predicted data by these can be used for mitigation measures. Keywords: Cumulative Impact Assessment (CIA), Environmental Impact Assessment (EIA), Subansiri River, Water quality, Sedimentation, Impacts of hydropower projects, Social impact, environmental impact.

*Environmental ScienceBites* BRILL

As this book demonstrates, it is essential to involve stakeholders in assessments of hydropower development. The author targets policy formation after the UNCED

and UNSSD conventions. By drawing on some dozen project cases, the author shows how policy changes have gradually influenced project design and implementation. Readers gain new insights into the reality behind hydropower policy changes as they have evolved over the last decade.

Proceedings of the 4th International Conference Hydropower, Bergen, Norway, 20-22 June 2001 Routledge

The edited volume aims at examining China's role in the field of international governance and the rule of law under the Belt and Road Initiative from a holistic manner. It seeks alternative analytical frameworks that not only take into account legal ideologies and legal ideals, but also local demand, socio-political circumstances, to explain and

understand China's legal interactions with countries along the Road, so that more useful insights can be produced in predicting and analysing China's as well as other emerging Asian countries' legal future. Authors from Germany, Korea, Singapore, Mainland China, Taiwan and Hong Kong have contributed to this edited volume, which produces academic dialogues and conducts intellectual exchanges in specific sub-themes.

Renewable Energies for Central Asia Countries: Economic, Environmental and Social Impacts Springer

This book describes the entire process of environmental impact assessment for hydropower and dam projects, not from a legal or regulatory point of view, but from a very applied one, based mainly

on the personal experience of the author, who is involved in this field of work since over 40 years, by describing the different steps of such an assessment, covering all major aspects to be dealt with. The focus is on environmental issues, while the other main subject—social impacts—is mentioned here only briefly. It will be of interest not only for ESIA (Environmental and Social Impact Assessment) practitioners, be they consultants involved in the preparation of such studies or staff members of environmental protection agencies having to come to decisions based on them, but also for engineers and planners involved in such projects, developers, and people interested in questions related to energy,

environment, and climate change. Overall, this book aims at contributing to put the discussion about hydropower and dam projects on a more objective level.

**The Large Dam Dilemma** Springer Science & Business Media

The power sector has undergone a liberalization process both in industrialized and developing countries, involving market regimes, as well as ownership structure. These processes have called for new and innovative concepts, affecting both the operation of existing hydropower plants and transmission facilities, as well as the development and implementation of new projects. At the same time a sharper focus is being placed on environmental considerations. In this context it is

important to emphasize the obvious benefits of hydropower as a clean, renewable and sustainable energy source. It is however also relevant to focus on the impact on the local environment during the planning and operation of hydropower plants. New knowledge and methods have been developed that make it possible to mitigate the local undesirable effects of such projects. Development and operation of modern power systems require sophisticated technology. Continuous research and development in this field is therefore crucial to maintaining hydropower as a competitive and environmentally well-accepted form of power generation. Transboundary Waters, Infrastructure Development and Public Private

### Partnership Springer

This volume is a comprehensive guide to the use of geographic information systems (GIS) for the spatial analysis of supply and demand for energy in the global and local scale. It gathers the latest research and techniques in GIS for spatial and temporal analysis of energy systems, mapping of energy from fossil fuels, optimization of renewable energy sources, optimized deployment of existing power sources, and assessment of environmental impact of all of the above. Author Lubos Matejicek covers GIS for assessment a wide variety of energy sources, including fossil fuels, hydropower, wind power, solar energy, biomass energy, and nuclear power as well as the use of batteries and accumulators. The author also utilizes

case studies to illustrate advanced techniques such as multicriteria analysis, environmental modeling for prediction of energy consumption, and the use of mobile computing and multimedia tools. *Dilemmas of hydropower development in Vietnam* Springer Science & Business Media

The Bulletin is intended as a general document aimed at a wide technical audience involved with or affected by hydropower. Basic background data and some statistics are presented, with specific reference to hydro-electricity production, hydropower dams, hydropower plants, in operation or under construction. Key aspects of hydropower are discussed. Data are presented about typical capital and both internal and external operating costs. Environmental

and social impacts are discussed and reference is made to the impact reservoirs have on greenhouse gas emissions. A section is dedicated to the exploitation of tidal energy by means of barrage systems. The current extent of hydropower development and the influence of policies aimed to favour the development of renewable energies are also discussed. Reference sources of information, on hydropower in general and interesting case-histories, are provided. Le Bulletin se veut un document général destiné à un large public technique impliqué ou affecté par l'hydroélectricité. Des données de base et quelques statistiques sont présentées, avec une référence spécifique à la production hydroélectrique, aux barrages hydroélectriques, aux centrales

hydroélectriques, en fonctionnement ou en construction. Les principaux aspects de l'hydroélectricité sont discutés. Les données sont présentées sur le capital type et les coûts de fonctionnement internes et externes. Les impacts environnementaux et sociaux sont discutés et il est fait référence à l'impact des réservoirs sur les émissions de gaz à effet de serre. Une section est dédiée à l'exploitation de l'énergie marémotrice au moyen de systèmes de barrage. L'ampleur actuelle du développement hydroélectrique et l'influence des politiques visant à favoriser le développement des énergies renouvelables sont également abordées. Des sources d'information de référence, sur l'hydroélectricité en général et des études de cas intéressantes, sont



fournies.

Where Global Sustainability Conventions Matter Martinus Nijhoff Publishers

A comprehensive depository of all information relating to the scientific and technological aspects of Shale Gas and Alternative Energy Conveniently arranged by energy type including Shale Gas, Wind, Geothermal, Solar, and Hydropower Perfect first-stop reference for any scientist, engineer, or student looking for practical and applied energy information Emphasizes practical applications of existing technologies, from design and maintenance, to operating and troubleshooting of energy systems and equipment Features concise yet complete entries, making it easy for users to find the required information quickly, without the need to

search through long articles

**An Exploration of the Impacts of Hydro Projects on People and the Environment in China** Springer

Large dam construction has significant environmental and social impacts at different scales. As the largest developing country in the world, China has built about half of the world's large dams, and more are expected to be built over the next two decades to meet the country's rapidly growing demand for energy. This book summarizes and updates information about the history, distribution, functions, and impacts of large dams, both globally and at China's national level. It then addresses the environmental and social-economic impacts of large dams in China with particular emphasis on the impacts of

large dams on relocated people and associated compensation policies. Lastly, it introduces an integrated ecological and socio-economic study conducted in areas affected by dams along the Upper Mekong River, China. This book has the following three goals. The first goal is to summarize and update information on large dams globally and at China's national level (Ch. 2). We examine large dam problems from different perspectives, ranging from their spatial and temporal distributions and their environmental and social impacts, to discussions and debates centered on them. We also incorporate the results of an empirical investigation of the environmental and socio-economic impacts of large dams on the Upper Mekong River, China, and draw

conclusions out of the analysis (Chs.3 & 4). Our second goal is to provide an analysis framework to help understand the environmental and social-economic impacts of dam construction and the resulting environmental degradations and social inequities at different scales (Chs.3 & 4), as well as to offer recommendations for mitigating these impacts within China's socio-political context (Ch. 5). The significant environmental effects resulting from dam construction include damage to ecological integrity and loss of biological diversity. The most significant social consequences brought by dam projects are their negative impacts on relocated people. Our analysis framework provides approaches to help comprehensively understand these impacts. Our third goal

is to provide clues and suggestions for further studies of large dam problems both globally and in China (Ch. 5). The construction of large dams is proceeding rapidly in different parts of the world despite the heated debates on whether they should be built at all. The decision-making process related to building large dams involves considerations of economic viability, environmental sustainability, and social equity. Therefore, interdisciplinary

collaborations are required in large dam research and development projects in order to reconcile the interests of different stakeholders and avoid harming ecosystems, biodiversity, and human welfare. Overall, we hope our book facilitates future examinations of large dams by providing summaries of existing data and research related to large dams, and offering a framework for better understanding and analyzing their environmental and social impacts.

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