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Measuring and Apportioning Rents from Hydroelectric Power Developments

Michael Rutherford

Measuring And Apportioning Rents From Hydroelectric Power Developments

Amos Madhlopa



Measuring And Apportioning Rents From Hydroelectric Power Developments:

Measuring and Apportioning Rents from Hydroelectric Power Developments Mitchell P. Rothman, 2000-01-01 Hydro resources are provided by nature The exploitation of such resources can generate significant economic rent to the owners In the past governments have usually claimed ownership of hydroelectric resources and passed on the rents to their state owned utilities which have used them to expand their systems or provide lower tariffs to their consumers With the restructuring of the electric power sector in many countries a more explicit consideration of hydroelectric rents is required Moreover hydropower resources are often owned by more than one party or at least require cooperation between parties to develop them In this context the measurement and apportionment of hydropower rents between cooperating parties becomes important This paper addresses some of the issues involved in cooperative development of water resources especially for hydroelectric generation It promotes a better understanding of the sources of the benefits and attempts to derive an analytical basis for discussions between cooperating parties This volume will be of interest to hydropower resource earning countries hydropower developers and Bank staff *The Changing Wealth of Nations 2021* World Bank, 2022-01-26 It is now clear that a narrow focus on the growth of gross domestic product GDP is insufficient to achieve humanity's aspirations for sustainable prosperity Well functioning ecosystems and educated populations are requisites for sustainable well being These and other too often neglected ingredients of national wealth must be addressed if the development path is to be sustainable *The Changing Wealth of Nations 2021 Managing Assets for the Future* provides the most comprehensive accounting of the wealth of nations an in depth analysis of the evolution of wealth and pathways to build wealth for the future This report and the accompanying global database firmly establishes comprehensive wealth as a measure of sustainability and a key component of country analytics It expands the coverage of wealth accounts and improves our understanding of the quality of all assets notably natural capital Wealth the stock of produced natural and human capital is measured as the sum of assets that yield a stream of benefits over time Changes in the wealth of nations matter because they reflect the change in countries assets that underpin future income Countries regularly track GDP as an indicator of their economic progress but not wealth and national wealth has a more direct and long term impact on people's lives This report provides a new set of tools and analysis to help policy makers navigate risks and to guide collective action Wealth accounts can be applied in macroeconomic analysis to areas of major policy concern such as climate change and natural resource management This report can be used to look beyond GDP to gauge nations economic well being and to promote sustainable prosperity **Dams and Development** United Nations Environment Programme. Division of Environmental Policy Implementation. Dams and Development Project, 2007 This is a compilation of relevant practices of dealing with environmental and social issues during the planning design and management of dams The Compendium covers 9 topics selected by the multistakeholder Dams and Development Forum It discusses the state of the art regarding dealing with the topics around the world It shows how they

are captured by regulatory frameworks and provides a number of examples illustrating how they have been implemented on the ground Publisher s description

Principles of Solar Gas Turbines for Generating Electricity

Amos Madhlopa, Richard Nkhoma, 2025-07-19 This book now in its second expanded and updated edition is dedicated to solar gas turbines providing fundamental knowledge and state of the art developments in the field A gas turbine is a heat engine in which a mixture of fuel and air is burned in a chamber that is an integral part of the flow circuit of the working fluid The burnt gas mixture expands and turns the turbine which can be connected to a generator for electricity production Solar gas turbines offer an important alternative to conventional gas turbines driven by non renewable polluting fossil fuels such as diesel or natural gas The book provides a comprehensive overview of the topic as well as numerous illustrations The second edition provides step by step linchpins from fundamentals to advanced concepts of solar gas turbines The book features methods of designing and testing of this green technology It includes economic and environmental considerations of solar gas turbines that are crucial for sustainable energy production In addition worldwide case studies on the development of solar gas turbines are presented in this book and each chapter contains worked examples

Principles of Solar Gas Turbines for Electricity Generation Amos Madhlopa, 2018-05-11 This is the first book dedicated to solar gas turbines

providing fundamental knowledge and state of the art developments in the field A gas turbine is a heat engine in which a mixture of fuel and air is burned in a chamber that is an integral part of the flow circuit of the working fluid The burnt gas mixture expands and turns the turbine which can be connected to a generator for electricity production Solar gas turbines offer an important alternative to conventional gas turbines driven by non renewable polluting fossil fuels such as diesel or natural gas The book provides a comprehensive overview of the topic as well as numerous illustrations

Agricultural Trade Liberalization in a New Trade Round Merlinda D. Ingco, L. Alan Winters, 2001-01-01 Annotation This collection

highlights the main trade issues of importance to different regions of the world

Needs and Barriers of Prosumerism in the Energy Transition Era Lucia Ruggeri, 2021-03-05 The effective enforcement of energy transition is one of the keys to

the successful fight to climate change The interplay between the sustainable UN Agenda 2030 goals is a new interesting ground for the development of intersectorial and multidisciplinary studies Thanks to University of Camerino which is focused on the contamination between different scientific areas and really engaged in strengthening international research a group composed by more than forty researchers of ten different nationalities is studying the energy policies and the new phenomenon of energy prosumerism This book is the first direct result of the research activities granted by University of Camerino under the Programme FAR 2019 in the ECPE Project Enabling Consumer to become Prosumer in the Energy transition era more details about the project ECPE are available at <https://ecpe.unicam.it> The object of this book is to collect and analyze the main barriers to self consumption and prosumerism Difficult as it is to discuss all obstacles in a single volume the book focuses on selected barriers which impede the development of new types of fossil free energy production

and consumption The energy communities could play a central role in the implementation of the energy transition strategies but legal social economic political and cultural barriers can hinder their spread To analyze the barriers and to find how to eliminate the obstacles to energy transition policies is pivotal to enhance research activities focused on the new EU Regulatory framework Most in general it is crucial a multidisciplinary approach focused on the fight to climate change and the implementation of sustainable development In this book are collected several articles which offer a different perspective on the energy transition barriers from different points of view and under different methodologies The book is composed of four parts The first one is dedicated to the analysis of the methodology and the results offered by questionnaires supplied online in two languages Italian English The survey is the basis of the Working Paper which is the deliverable of the ECPE Work Programme n 2 and which constitutes the ground for a discussion into the research group The second part of the volume collects the contributions focused on the social and economic barriers to prosumerism while the third one is dedicated to a description of failure cases of self consumption Lesson learned by failure experiences in the world could favour a good implementation of the new EU Directive Renewable Energy Directive 2018 2001 RED II and Directive on common rules for the internal market for electricity 2019 944 IEM in Italy an European Country which is strategic in the Energy policy of the Foreword 1 Mediterranean area The last part of the book is composed of the visions and perspectives offered by Italian testimonials engaged as actors in the new energy market with different roles I am grateful for the generous support given by the editorial staff composed by Gopi Battinemi Roberto Garetto Federico Pascucci Giovanni Russo and Karina Zabrodina precious collaborators and valid researchers Thanks also to the Scientific Committee which honoured our work Marine Cornelis Francisco Lled Yag e and Luis E Quintero As editor I am sure you will appreciate the volume which would like to offer an insight on new issues and challenges offered by the energy transition era

Mountains: Sources of Water, Sources of Knowledge Ellen Wiegandt, 2007-12-20 This book addresses the major challenges in assuring globally sustainable water use It examines critical contemporary and global issues through the lens of global change processes and with a focus on mountain regions In doing so it aims to bring state of the art science from numerous disciplines to bear on important environmental and policy questions related to water resources The volume will be a boon to a range of readers from environmental scientists to hydrologists

Financing of Private Hydropower Projects Chris R. Head, 2000-01-01 Concerns about global warming and the availability of clean renewable sources of energy are increasing However as private companies take over state power utilities the demand for profit has stifled those concerns Currently the private sector is building over 40 megawatts of fossil fuel thermal plants for each new megawatt of hydropower This report examines the reasons for building fewer hydropower plants and looks at ways to eliminate some of the drawbacks It studies ten privately financed hydro schemes which represent all but the smaller projects likely to be considered for private financing in the future The projects are located in five countries where the power sector is at different stages of maturity and deregulation They

include multi and single purpose projects intended for both domestic supply and export

Free Trade Area Membership as a Stepping Stone to Development Emiko Fukase, Will Martin, 2001 The ASEAN free trade area AFTA was created in 1992 This book presents an overview of the mechanisms of AFTA as well as individual country reports of the costs and benefits of membership The final chapter looks at the potential impact on economic growth

Fostering Competition in China's Power Markets Noureddine Berrah, Ranjit Lamech, Jianping Zhao, 2001-01-01 This book compares the recent evolution of the structure of inputs and expenditure in Armenia's general education with international norms and practice In the context of the government's sectoral reform strategy it also outlines various proposals for restructuring the system The purpose of this study is to clarify what the inefficiencies might mean for future costs and performance of the system highlight the trade offs involved and identify measures needed to overcome constraints to rationalization

Facets of Globalization Shahid Yusuf, Simon J. Evenett, Weiping Wu, 2001-01-01 Since 1985 national economies have become increasingly integrated into a global network At the same time both population and production in developing countries are becoming concentrated in urban regions This in turn has generated demands for more local autonomy shifting more decision making to sub national levels Globalization is expected to continue leading to greater openness and international mobility of capital and people There are few reasons to believe that these trends will abate if anything they are likely to intensify the focus on cities and sharpen competition among these for international and local resources This volume underscores the transformative role of globalization and urbanization and shows the interplay between the two forces

Electronic Finance Stijn Claessens, Thomas C. Glaessner, Daniela Klingebiel, 2002-01-01 Technological developments in electronic finance have changed the nature and delivery of financial services in recent years especially through the use of online banking online trading and brokerage services This report reviews the developments in e finance and analyses the implications for consumers financial service providers and governments Issues discussed include the impact on competition within the financial services industry how financial sector policies in emerging markets are affected public policy and regulatory requirements

Trade and Transport Facilitation John Raven, 2001-01-01 The report focuses on transport facilitation in developing countries in order to help promote trade in exports and economic growth Each country has its own set of special characteristics including significant border entry and import points This report provides an analytical tool for those working in the field complemented by practical suggestions in order to identify facilitation problems and create effective remedial action plans This report is an expanded version of the publication *Trade and Transport Facilitation An Audit Methodology* ISBN 0821347195 published by the World Bank in 2000

Options for Managing and Financing Rural Transport Infrastructure Christina Malmberg Calvo, 1998-01-01 World Bank Technical Paper No 409 In developing and transition economies 60 to 80 percent of all passenger and freight transport moves by road the main form of access for most rural communities Yet most of the 11 million kilometers of roads in these economies are badly maintained and poorly managed

This paper discusses one of the most effective ways to promote sound policies for managing and financing road networks commercialization It discusses the emerging central concept of bringing roads into the marketplace putting them on a fee for service basis and managing them like a business **Structural Adjustment in the Transition** Paul

Siegelbaum,2002-01-01 Annotation The study reviews the transition efforts of four countries Albania Azerbaijan Kyrgyz Republic and Moldova to develop recommendations which may benefit countries in future transition efforts These countries have been unable to overcome obstacles to achieve any sustainable success in terms of growth or poverty reduction

Closing the Gap in Access to Rural Communications Bjorn Wellenius,2002-01-01 Aunque la reforma a las telecomunicaciones en Chile condujeron al desarrollo rapido en los anos 90 manejadas por el sector privado las areas rurales seguian excluidas en gran parte debido al alto costo para proporcionar el servicio En 1994 el gobierno establecio el Fondo para el Desarrollo de las Telecomunicaciones financiado por presupuesto nacional para catalizar la inversion privada adicional y ponerla al servicio de las telecomunicaciones rurales **Farm Debt in the CIS** Csaba Csáki,Zvi Lerman,Serge?

Sotnikov,2001-01-01 This study presents the results of the multi country study for farm debt in five Commonwealth of Independent States CIS countries Belarus Kazakhstan Moldova Russia and the Ukraine It offers a comparative analysis of the level and composition of farm debt in these countries and reviews the major reasons for farm debt accumulation in the 1990s

Managing the Real and Fiscal Effects of Banking Crises Daniela Klingebiel,Luc Laeven,2002 This volume provides two recent analyses of government responses to financial crises they have been developed in the light of the recent East Asian crisis but also draw on experiences from other regions Issues discussed relate to the tradeoffs involved in public policies for systemic financial and corporate sector restructuring and the use of cross country evidence to determine whether specific crisis containment and resolution policies effect the fiscal costs of resolving a crisis The book also presents information on 113 systemic banking crises that have occurred in 93 countries since the 1970s as well as 50 borderline or non systemic banking crises in 44 countries during the same period **Environmental Health** James A. Listorti,Fadi M.

Doumani,2001-01-01 Environmental health remains at the periphery of sustainable development because it is inadequately defined and institutionally fragmented This publication aims to provide ways of addressing this multisectoral problem It is in three parts The first looks at harmonising sectoral priorities and shows that environmental health can target at least as much disease as the health sector The second part provides environmental health assessment guidelines The third part looks at the results of a pilot project to put theory into practice in Ghana

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