

## Status of Power Sector Reform in Africa: Impact on the Poor

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### Abstract

Available research literature on power sector reform in Africa indicates that few African decision-makers question the underlying rationale of power sector reform. Many simply accept it as a given and concentrate on identifying measures that would expedite the reform process. This tunnel vision perspective undermines the possibility of developing more nuanced alternatives that can generate a wider range of options that reflect the region's characteristics and institutional/management capacity. This article is based on a regional study by the authors reviewing the status, challenges and prospects of ongoing and planned power sector reform in eastern and southern Africa with special emphasis on the implications for the poor. Reforms have improved generation capacity as well as financial performance in certain utilities. However, there are several challenges that reforms are yet to address. These challenges include poor performance at the transmission and distribution end; increased electrification of the poor; and; increased local participation in the power sector. There is inadequate information and data on how ongoing and planned power sector reform can be modified to address the aforementioned challenges, particularly with regard to electrification of the poor. This article suggests a number of measures that could allow the poor to benefit from power sector reform.

**Keywords:** electricity; reform; Africa

### 1. Power Sector in Africa - Status

The African power sector is characterised by small systems (see Appendix 2), with over three quarters of the electricity produced in Africa, coming from South Africa and North Africa (figure 1). The electricity industry in most of the sub-Saharan African countries is dominated by small systems, with heavy reliance on hydro generation.

**Figure 1 Share of Installed Capacity in Africa (1997)**

Total electricity production for Africa in 1998 was 414 TWh (IEA, 2000). Compared to other regions of the world, electricity production is very low in Africa. Exploitable hydropower capacity in Africa is massive (Johansson et al, 1999) of which less than 7% has been harnessed. Plans are,

however, underway to exploit some of this potential. Mozambique, for example, is undertaking feasibility studies on the construction of a large hydroelectric dam on the Zambezi River. The dam is planned to have an installed capacity of 2,000 - 2,500 MW (Mbendi, 1998) and to power a proposed aluminium smelter at Maputo and mining projects at Mozambique's rich coastal mineral sands. Another major potential power project in Africa is the extension of the Inga River hydroelectric scheme in the Democratic Republic of Congo, which could generate 50,000 MW of power (Mbendi, 1998 and IEU, 1995).

**[Insert brief regional profile: SSA here]**

In overall terms, the bulk of the electricity produced in Africa is from thermal stations, because of the large coal plants in South Africa and oil fired generation units of Nigeria and North Africa (figure 2).

# Reforming The Power Sector In Africa

**Ishmael Ackah, Charly Gatete**



## **Reforming The Power Sector In Africa:**

*Reforming the Power Sector in Africa* M. R. Bhagavan, 1999 Today the public sector in Africa like in much of the rest of the world is perceived as having led to inefficiency waste indifference and corruption in the provision of public services generally The power supply sector is now experiencing a process of restructuring and reform including privatization The contributors to this volume who are themselves involved in the policy process in their own countries examine how far this movement towards restructuring and reform has proceeded in Malawi Tanzania Uganda and Zimbabwe Based on empirical research the authors have generated policy options and scenarios that are bound to be of vital interest to policy makers and implementers throughout Sub Saharan Africa Among the key topics dealt with are the determinants of performance and efficiency vertical and horizontal unbundling of power generation distribution and sales the role of independent power producers the benefits and risks attendant on reform and privatization and the legal and regulatory framework on which everything else depends

*Power Sector Reform in SubSaharan Africa* J. Turkson, 2000-03-02 As part of the wave of liberalisation sweeping most parts of the world power sectors around the globe are coming under intense scrutiny with some being restructured This book presents six country case studies to examine the process and implementation experiences of power sector reform in Subsaharan Africa

*Power-sector Reform and Regulation in Africa* Joseph Kapika, Anton A. Eberhard, 2013 Power sector reform and regulation in Africa offers detailed up to date and original research into how governments and policymakers in six African countries have grappled with the development of their energy sectors Arising out of a two year peer learning process involving senior executives in the electricity regulators in each country the book contains an intelligent and clear analysis of the knowledge and shared experiences gathered in Africa by African scholars

Publisher's note

**Capacity Building for a Reforming African Power Sector** J. Baguant, 2002 Capacity building for the power sector is an important national responsibility which Governments in Africa need to seriously address The inability of Governments to mobilize the required level of investment and commitment to the development and retention of a wide array of skills needed by the power sector is in part responsible for many of the difficulties that are faced by the region's electricity industry Under the aegis of the AFREPREN Capacity Building Theme Group a regional study and four country studies Zimbabwe Mauritius Ethiopia and South Africa addressed the capacity building question in the African power sector This volume presents the findings of the studies The studies analyse issues of manpower recruitment training and retention in national power utilities They also highlight the challenges and implications of capacity building initiatives in a reforming electricity industry and propose innovative options for capacity building in the region's power sector

*Renewable Energy Law in Sub-Saharan Africa* Nana Asare Obeng-Darko, 2024-06-03 This book contributes to the broader discussion on the development of renewable energy sources for a clean and sustainable energy to drive sustainable growth energy security and sustainable development Focusing on sub Sahara African perspectives with Ghana as the central case study this book focuses

on how regulatory regimes can be designed to achieve renewable energy targets for electricity production Exploring the regulatory rationales behind the government's intervention in the Ghanaian renewable energy sector it examines whether the regulatory measures adopted by the Ghanaian government are sufficient to attract adequate investment to meet renewable energy integration targets Assessing the regulatory frameworks of the renewable energy sectors of The Gambia and Nigeria the book compares these countries to the regulatory approaches to renewable energy development in Ghana Arguing that there are significant regulatory issues impeding renewable energy development in Ghana with wider consequences across sub Saharan Africa the book suggests solutions which can establish a robust and an effective regulatory framework to achieve renewable energy developmental targets A comprehensive read this volume will appeal to scholars and researchers of sustainable development law and legal studies environmental laws development economics applied industrial economics energy security African economy public policy and regulatory policy It will also be of interest to professionals and practitioners in policy circles and research think tanks

*Rethinking Power Sector Reform in the Developing World* Vivien Foster, Anshul Rana, 2019-12-05 During the 1990s a new paradigm for power sector reform was put forward emphasizing the restructuring of utilities the creation of regulators the participation of the private sector and the establishment of competitive power markets Twenty five years later only a handful of developing countries have fully implemented these Washington Consensus policies Across the developing world reforms were adopted rather selectively resulting in a hybrid model in which elements of market orientation coexist with continued state dominance of the sector This book aims to revisit and refresh thinking on power sector reform approaches for developing countries The approach relies heavily on evidence from the past drawing both on broad global trends and deep case material from 15 developing countries It is also forward looking considering the implications of new social and environmental policy goals as well as the emerging technological disruptions A nuanced picture emerges Although regulation has been widely adopted practice often falls well short of theory and cost recovery remains an elusive goal The private sector has financed a substantial expansion of generation capacity yet its contribution to power distribution has been much more limited with efficiency levels that can sometimes be matched by well governed public utilities Restructuring and liberalization have been beneficial in a handful of larger middle income nations but have proved too complex for most countries to implement Based on these findings the report points to three major policy implications First reform efforts need to be shaped by the political and economic context of the country The 1990s reform model was most successful in countries that had reached certain minimum conditions of power sector development and offered a supportive political environment Second countries found alternative institutional pathways to achieving good power sector outcomes making a case for greater pluralism Among the top performers some pursued the full set of market oriented reforms while others retained a more important role for the state Third reform efforts should be driven and tailored to desired policy outcomes and less preoccupied with following a predetermined process particularly since the twenty first

century century agenda has added decarbonization and universal access to power sector outcomes The Washington Consensus reforms while supportive of the twenty first century century agenda will not be able to deliver on them alone and will require complementary policy measures

**Energy Regulation in Africa** Ishmael Ackah,Charly Gatete,2024-03-19 This book analyzes the political economy governing energy regulation across the African continent Presenting case studies that span diverse energy sectors and countries it provides an overview of their complex political and regulatory frameworks The book explores emerging technologies and energy markets highlighting Africa s preparedness for the energy transition and sheds light on the pivotal role of cross border energy trade with regard to energy access Further it examines regulators influence within regional power pools as well as their contribution to gender mainstreaming in the energy sector addressing vital social issues This book is divided into five parts the first of which focuses on the political economy of energy regulation The second part discusses emerging technologies and climate change issues while the third examines regional energy markets and regional institutional collaboration The fourth part features contributions on gender mainstreaming while part five rounds up the coverage The book will be of interest to policymakers and investors in Africa as well as scholars interested in energy regulation and economics

**The Political Economy of Power Sector Reform** David G. Victor,Thomas C. Heller,2007-02-08 Over the last fifteen years the world s largest developing countries have initiated market reform in their electric power sectors from generation to distribution This book evaluates the experiences of five of those countries Brazil China India Mexico and South Africa as they have shifted from state dominated systems to schemes allowing for a larger private sector role As well as having the largest power systems in their regions and among the most rapidly rising consumption of electricity in the world these countries are the locus of massive financial investment and the effects of their power systems are increasingly felt in world fuel markets This accessible volume explains the origins of these reform efforts and offers a theory as to why despite diverse backgrounds reform efforts in all five countries have stalled in similar ways The authors also offer practical advice to improve reform policies

*Energy Subsidy Reform in Sub-Saharan Africa* Mr.Trevor Serge Coleridge Alleyne,Mr.Mumtaz Hussain,2013-08-12 The reform of energy subsidies is an important but challenging issue for sub Saharan African SSA countries There is a relatively large theoretical and empirical literature on this issue While this paper relies on that literature too it tailors its discussion to SSA countries to respond to the following questions Why it is important to reduce energy subsidies What are the difficulties involved in energy subsidy reform How best can a subsidy reform be implemented This paper uses various sources of information on SSA countries quantitative assessments surveys and individual but standardized case studies

**Public-Private Partnerships in Sub-Saharan Africa** James Leigland,2020-05-07 Expectations are high regarding the potential benefits of public private partnerships PPPs for infrastructure development in low income countries The development community led by the G20 the United Nations and others expects these partnerships between governments and private companies in infrastructure service provision to aid

transformational mega projects as well as efforts to achieve the Sustainable Development Goals Yet PPPs have been widely used only since the 1990s and discussion of their efficacy is still dominated by best practice guidance academic studies that focus on developed countries or ideological criticism Meanwhile practitioners have quietly accumulated a large body of empirical evidence on the actual performance of PPPs The purpose of this book is to summarize and consolidate what this critical mass of evidence based research indicates about PPPs in low income countries and thereby develop a more realistic perspective on the practical value of these mechanisms With a primary focus on Sub Saharan Africa though drawing on critical insights from other regions it demonstrates that the benefits of such partnerships will only be realised if expectations remain modest and projects are subject to transparent evaluation and competition

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