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***Office of Energy,  
Environment, and  
Technology***

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**Bibliography:  
The Impact of  
Global Power Sector  
Restructuring on  
Energy Efficiency**

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**BIBLIOGRAPHY:  
THE IMPACT OF GLOBAL POWER SECTOR  
RESTRUCTURING ON ENERGY EFFICIENCY**

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### **Appendix: Organization and Publication Contact List**

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## ACRONYMS

|        |  |
|--------|--|
| ACEEE  | American Council for an Energy Efficient Economy                         |
| CPUC   | California Public Utilities Commission                                   |
| DSM    | Demand-side Management   |
| ECEEE  | European Council for an Energy Efficient Economy                         |
| EECA   | Energy Efficiency and Conservation Authority (New Zealand)               |
| ESCO   | Energy Service Company   |
| ESI    | Electricity Supply Industry  |
| IAEE   | International Association for Energy Economics                           |
| IEEE   | Institute of Electrical and Electronics Engineers, Inc.                  |
| IFC    | International Finance Corporation  |
| IIEC   | International Institute for Energy Conservation                          |
| IRP    | Integrated Resource Planning   |
| LBL    | Lawrence Berkeley National Laboratory (United States)                    |
| NAESCO | National Association of Energy Services Companies (United States)        |
| NARUC  | National Association of Regulatory Utility Commissioners (United States) |
| OECD   | Organization for Economic Cooperation and Development                    |
| SRC    | Synergic Research Corporation  |
| UK     | United Kingdom   |
| US     | United States  |
| USAID  | United States Agency for International Development                       |

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The authors gratefully acknowledge the extensive assistance and review provided by individuals from many organizations in the case study countries of Argentina, Chile, New Zealand, Norway, United Kingdom, and United States. These many individuals are identified by name in the companion document *Case Studies of the Effects of Power Sector Reform on Energy Efficiency*.

A draft copy of this project report was distributed for review and comment to a number of organizations whose missions ranged from energy research, energy policy and multi-lateral bank energy sector lending, to the delivery of power and ESCO services. Reviewers also were invited to participate in a group discussion of recommended next steps for assisting countries to address the treatment of efficiency along-side power sector reforms. We appreciate the generous contributions of review time and ideas that we received from the Inter-American Development Bank (Ms. Connie Smyser), International Institute for Education (Mr. Ahmad Ghamarian), Lawrence Berkeley National Laboratory (Dr. Stephen Wiel and Dr. Joseph Eto), National Association of Energy Service Companies (Ms. Nina Lockhart), U.S. Department of Energy (Mr. Russell Profozich) and the World Bank (Ms. Carolyn Tager and Mr. Karl Jechoutek).

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This report is the third in a three-part set devoted to the topic of the impact of power sector reform on energy efficiency around the world. The other two reports are:

1. *Promoting Energy Efficiency in Reforming Electricity Markets: A Guidebook for Stakeholders*, March 1998.
2. *Case Studies of the Effects of Power Sector Reform on Energy Efficiency*, March 1998.

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## **BIBLIOGRAPHY: THE IMPACT OF GLOBAL POWER SECTOR RESTRUCTURING ON ENERGY EFFICIENCY**

### **INTRODUCTION**

Consistent with a global trend toward creating more market-oriented economies, many countries are reforming their power sectors to introduce competition; unbundle and privatize vertically integrated, state-owned utilities; and create independent regulatory authorities. The goals of these reforms are generally to improve system efficiency and thereby lower unit costs, mobilize private capital to make up for insufficient public funds, and establish a power sector capable of meeting rapidly growing power demand in an efficient (and environmentally sound) manner.

The power sector reforms that are taking place address many of the market failures which have produced higher costs and inefficiencies. Nonetheless, no sector reform to date has been able to eliminate all market impediments. One area that has lacked attention is end-user energy efficiency, which has often been an afterthought in power sector restructuring or is not considered at all. Energy efficiency is becoming a "stranded benefit" in many reformed power sectors, which can only be "retrofitted" to an already restructured and privatized power sector with great difficulty. It would be preferable to address energy efficiency as an explicit goal of the reform process and incorporate ways to capture all of its societal benefits. Yet past efforts to do this have been limited and only partly successful.

As many developing countries begin to restructure their power sectors, they will need the best information available on what has been done to address the energy efficiency issue and how it has succeeded or failed. This bibliography provides a comprehensive English-language reading list on these issues for key developing country decision makers. It is a companion to a successor research document that looks in detail at these issues and suggests solutions matched to power sector reform models. A third document provides case studies of the treatment of energy efficiency in power sector reforms for six countries.

The bibliography begins by presenting the top-25 key reference documents on the subject of energy efficiency in power sector reform. Energy policy makers (and members of their staff handling policy or regulatory investigation and managing the reform process) would be advised to have these selections available in their libraries. The remaining, more detailed documents are then classified and presented according to the categories listed below.

- ▶ general treatment of power sector restructuring
- ▶ energy efficiency and demand-side management
- ▶ energy services delivery to the end user

- ▶ environment
- ▶ energy policy
- ▶ regulatory reform — models and rules
- ▶ ownership/privatization
- ▶ regional references.

A ★ beside an entry indicates that the document also appears in the top-25 list. Country names in brackets [ ] in an entry indicate which countries are discussed most prominently in the article or book if this information is not clear from the title. Finally, a list of contact information (such as addresses, phone numbers, and world wide web home page addresses) for organizations with multiple publications available on the subject of restructuring or energy efficiency is provided in an appendix to this document.

## 1. TOP 25 KEY REFERENCE DOCUMENTS

### Essentials for the Library

“Energy Efficiency”[Global]. *Energy Policy*. Vol. 24, No. 4. April 1996.

This is a special issue focused on energy efficiency in restructured markets.

“The Future for Energy Efficiency” [US]. *The Electricity Journal*. Vol. 9, No. 6. July 1996.

This is a special issue on energy efficiency. It includes articles on energy efficiency in restructured markets, information access, electric service industries, and the future of ESCOs.

Gilbert, Richard J. and Edward P. Kahn, editors. *International Comparisons of Electricity Regulation*. New York: Cambridge University Press, January 1996.

This is a collection of articles on regulatory regimes in individual countries and regions, including the United Kingdom, Argentina, Brazil, Uruguay, Chile, Scandinavia, the United States, Japan, Germany, New Zealand, Canada, France, and Yugoslavia. This book is a must-have for policy makers wanting to familiarize themselves with a variety of approaches to electricity regulation from one readily available source.

“The Global Challenge.” *Fourth International Energy Efficiency and DSM Conference*. Berlin: SRC International, October 12, 1995.

The proceedings from this conference include over 70 articles in 26 subject areas dealing with energy efficiency and demand-side management. Experiences represented are

primarily those of the U.S., Europe, and Australia, with a few articles on developing country experiences. The restructuring of the power sector is dealt with explicitly in at least ten of the articles and is mentioned tangentially in many more. Also of interest are the proceedings from the same conference held one year earlier in Stockholm, Sweden.

Hunt, Sally and Graham Shuttleworth. *Competition and Choice in Electricity*. New York: John Wiley and Sons, October 1996.

This book contains an academic treatment of the models of restructuring. Part 1 includes a general discussion of restructuring and privatization, plus detailed discussions of four models of restructuring: monopoly, purchasing agency, wholesale competition, and retail competition. Part 2 discusses contracting, markets and transmission pricing in detail, including sections on power purchase agreements, wholesale contracts, spot markets, transmission costs, and transmission contracting and pricing.

OECD. *Electricity Supply Industry*. Paris: International Energy Agency, January 1994.

This report includes chapters on structure, ownership and privatization, regulation, regulatory policy issues, fuel choice, security of supply, environmental policy, energy efficiency, pricing, and allocation of risk. Annexes on all OECD countries and their particular issues are also included.

"Profiting from Energy Efficiency" [Global]. *1996 ACEEE Summer Study on Energy Efficiency in Buildings*. Berkeley, CA: ACEEE, August 1996.

These are the proceedings from the ninth in a series of biennial workshops devoted to technical, policy, and implementation issues related to energy use, sponsored by ACEEE. The study includes panels on ten topics, including energy efficiency, energy and environmental policy, building industry trends, and commercial and residential buildings. These proceedings are available in both paper and CD-ROM versions from ACEEE.

Surrey, John, ed. *The British Electricity Experiment. Privatization: The Record, The Issues, The Lessons*. London: Earthscan Publications or Island Press (US), 1997.

This book questions the use of the United Kingdom example as the one for all other countries to emulate. It contains a collection of essays that characterize the UK restructuring as unarmful to the economy or the environment, but presents reasons why the peculiar circumstances that allowed success in the UK may not exist elsewhere.

“Tensions in the Transition” [US]. *The Electricity Journal*. Vol. 10, No. 6. July 1997.

This is a special issue on transition issues, with articles on pricing, transmission, and restructuring policy.

### Articles, Technical Reports, and Brochures

Baruch, Seth and Mark Hopkins. *Unlocking the Door to Global Energy Efficiency: Strategic Recommendations for International Financing Institutions*. Washington, DC: Alliance To Save Energy, April 1997.

This report, which is intended for the international donor community, contains a good discussion of customer, project, market, and bank barriers to accomplishing energy efficiency. It also presents possible solutions to overcome these barriers, including developing business models, supporting the creation of “super-ESCOs,” increasing training and technical assistance, and finding potential industry partners. Recommended next steps include creating an energy efficiency capacity within donor agencies and providing targeted technical assistance.

Bates, Clive. *The Market for Energy Efficiency in Poland*. Washington, DC: IIEC, April 1997.

This easy to read, comprehensive analysis of energy efficiency market opportunities and developments in Poland includes chapters on the country’s business climate, energy sector, main energy efficiency actors, product markets, services/ESCOs, financing options and further contact information.

Clapp, John D. and Doug Miller. *Privatization Options for the Power Industry* [Global]. Washington, DC: USAID, November 6, 1996.

This comprehensive discussion of various privatization methods includes sales to strategic investors, initial public offering, vouchers, employee ownership, etc. The discussion of the role of government and investor perspectives is especially insightful. It also contains case studies of Argentina, Australia, Bolivia, Chile, the Czech Republic, Hungary, Poland, Russia and the United Kingdom.

Cudahy, Richard D. and Thomas K. Dreesen. *A Review of the Energy Service Company (ESCO) Industry in the United States* [Global]. Washington, DC: World Bank, January 1996.

This is a comprehensive review of the history and current status of the U.S. ESCO industry.

Department of the Environment. *Energy Services for the Public Sector — A Working Guide* [UK]. London: December 1996.

This good introduction on energy services and performance contracting in the UK public sector is targeted to decision makers and building managers in the public sector. It includes many case studies, as well as a publication and contact list. Available from the Energy Services Team, Department of the Environment, Phone +44-171-890-6551.

Dussan, Manuel I. *Electric Power Sector Reform in Latin America and the Caribbean*. Washington, DC: Inter-American Development Bank, June 1996.

This is a comprehensive discussion of all issues related to power sector reform. It presents the characteristics and main issues of electricity sector in Latin America before reform, the prospects for institutional reform, main regulatory and institutional policy issues, and essential elements of sector reform. Although it is targeted to Latin America, it is of general interest. Available on the worldwide web at:  
<http://www.bixler.com/workingidb/inf/eng/infe3ref.htm>.

Eto, Joseph and William Golove. "Energy Efficiency, the Free Market and Rationales for Government Intervention" [US]. (*De*)*Regulation of Energy: Intersecting Business, Economics and Policy: Conference Proceedings*. Boston, Massachusetts: IAEE, October 30, 1996.

This paper reviews current perspectives on market barriers to energy efficiency. The authors find that challenges to the existence of market barriers have, for the most part, failed to provide a testable alternative explanation for evidence suggesting that there is a substantial "efficiency gap" between consumers' actual investments in energy efficiency and those that appear to be in consumers' best interest. They suggest that differences of opinion about the appropriateness of public policies stem not from disputes about whether market barriers exist, but from different perceptions on the magnitude of the barriers, and the efficacy and (possibly unintended) consequences of policies designed to overcome them. The authors conclude that there are compelling justifications for future energy-efficiency policies. Nevertheless, in order to succeed, they must be based on a sound understanding of the market imperfections they seek to correct and a realistic assessment of their likely efficacy.

Gilje, Terje, Per Daniel Pedersen and Bill Schjelderup. "Energy Efficiency in a Competitive Market" [Norway]. *Fourth International Energy Efficiency & DSM Conference*. Berlin: SRC International, October 12, 1995.

This article argues that in Norway's new competitive electricity market, energy efficiency is an increasingly important sales argument for electricity companies wanting to increase their market shares. Consumer awareness is the key to this development.

Heffner, Grayson, Stale Johansen, Brian Kick, Mike King, Dilip R. Limaye, Matthew Wallace, and Dean White. "Public Purpose Energy Efficiency Programs and Utilities in Restructured Markets" [US, UK, and New Zealand]. *The Electricity Journal*. Vol. 9, No. 6. July 1996.

The authors describe energy efficiency issues in the United Kingdom, Norway and New Zealand. They also present a framework for assessing institutions to promote demand-side management in restructuring and restructured markets.

Hoch, Lance and Linton Parker. "Sustainable Energy in Competitive Electricity Markets: What's Been Tried, What Works, What Doesn't." *Fourth International Energy Efficiency & DSM Conference*. Berlin: SRC International, October 12, 1995.

This article reviews policies that have been pursued to integrate energy efficiency and economic efficiency in the power sector in five countries: United Kingdom, Norway, Sweden, New Zealand and Australia. It contains an overview of the industry structure for each country, a discussion of the impact of the competitive market on sustainable energy, a description of existing policies and institutions, and a description of private sector initiatives to increase end-use energy efficiency or renewable energy.

Lenssen, Nicholas, and James Newcomb. "Integrated Energy Services — The Shape of Things to Come?" [US]. *Strategic Issues Paper*, E-Source: August 1996.

This business oriented report on U.S. experiences with integrated energy services contains several case studies and examples, comprehensive references, and discussions of district cooling, street lighting, remote HVAC monitoring, maintenance and control, industrial equipment purchase/ownership, residential energy services, compressed air services, traffic lighting services, and whole building energy services. It is available only to members of E-Source. Information can be obtained on the world wide web at <http://www.e-source.com>.

Lewis, Piers and Dean White. *Separating Electricity Distribution: International Experience*. Washington, DC: USAID, November 15, 1995.

This report contains brief descriptions and cross-country comparisons. It also contains excellent exhibits showing the power sector structure before and after restructuring in a number of countries.

Lough, R.J. "Transition to a Competitive Market and its Impact on Energy Efficiency" [New Zealand]. *Presentation to the Third International Energy Efficiency and DSM Conference*, 1994.

This article provides a comprehensive treatment of power sector reform in New Zealand. Although some of the material is somewhat dated, it provides useful insights into the political environment that drove the reforms in New Zealand, the organizational structure of the power sector before and after reforms, and the impact of the reforms on energy efficiency. Also contains a brief discussion of remaining barriers to energy efficiency.

Moen, Jan. *Electricity Utility Regulation, Structure and Competition. Experiences from the Norwegian Electric Supply Industry (ESI)*. Norway: Norwegian Water Resources & Energy Administration, April 18, 1994.

The author provides a comprehensive description of the structure and history of the Norwegian power sector, deregulation process, functioning of the competitive market and results of competition. The report includes an appendix with comprehensive discussions of DSM and energy efficiency in Norway.

Swinden, D.J. "Energy Efficiency and DSM in a Fully Competitive Energy Market" [UK]. *Fourth International Energy Efficiency & DSM Conference*. Berlin: SRC International, October 12, 1995.

The basic argument of this paper is that market forces are preferable to a government-managed approach to achieving environmental and energy efficiency benefits. Examples are given of how electricity is a catalyst for change at several levels in business, the community, and the general economy.

World Bank. "Power and Energy Efficiency: Status Report on the Bank's Policy and IFC's Activities — Joint World Bank / IFC Seminar" [Global]. *Presentation to the Executive Directors*, Washington, DC: World Bank, September 1994.

This is an introductory and easy readable description of power sector reform and energy efficiency issues in developing countries, focusing mostly on supply-side and load management, and containing several case studies. It is available free of charge at (202) 458 5727 or on the World Bank Web-Page listed in the appendix to this bibliography.

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The Center for Environment of the Bureau for Global Programs, Field Support, and Research houses the environmental programs of the U.S. Agency for International Development (USAID). One of five *Centers of Excellence* within the Agency, the Center for Environment, provides field support to U.S. bilateral assistance efforts, manages global environmental program activities, oversees USAID's environmental research efforts, and is USAID's principal liaison on technical environmental issues to the rest of the U.S. Government, non-governmental organizations and universities, and other bilateral and multilateral donors.

The Office of Energy, Environment, and Technology is a part of the Center for Environment and helps developing countries and emerging economies find market-oriented solutions to their energy and environment problems. The Office helps set the energy policy direction for the Agency and responds to the short-term needs of USAID's field offices in assisted countries.

A lack of energy is seriously curtailing economic growth in developing countries and countries in transition. Expansion of energy supplies imposes a huge financial burden while increasing environmental threats in these countries. In addition, many countries lack the institutional capability and appropriate technology to operate and manage energy systems efficiently. These factors contribute to the role energy development plays as a leading contributor to global climate change and regional and local environmental problems.

To address these problems, the Office of Energy, Environment, and Technology leverages the financial resources of multilateral development banks, such as The World Bank and the InterAmerican Development Bank, the private sector, and other bilateral donors to increase energy efficiency and expand energy supplies, enhance the role of private power, and implement novel approaches through research and adaptation. These approaches include improving power sector investment planning ("integrated resources planning") and encouraging the application of cleaner technologies that use both conventional fossil fuels and renewable energy sources. The Office's promotion of greater private sector participation in the power sector and a wide-ranging training program also help to build the institutional infrastructure necessary to sustain cost-effective growth.

Further information regarding Center for Environment and Office of Energy, Environment, and Technology activities can be requested by contacting the Office of Energy, Environment, and Technology at the following address.

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