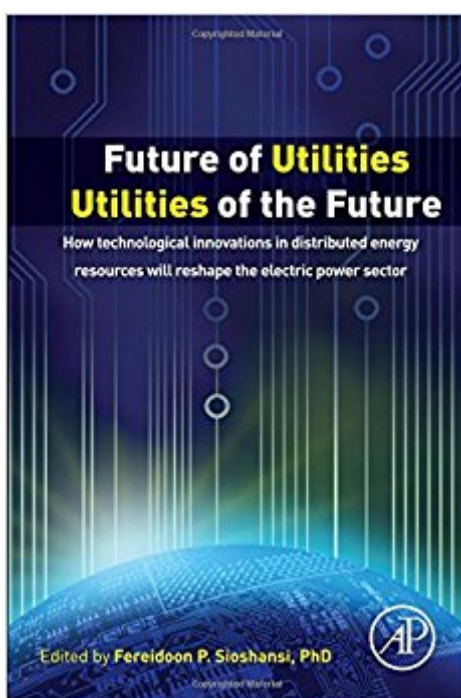


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# Future Of Utilities - Utilities Of The Future: How Technological Innovations In Distributed Energy Resources Will Reshape The Electric Power Sector



## Synopsis

Future of Utilities - Utilities of the Future: How technological innovations in distributed generation will reshape the electric power sector relates the latest information on the electric power sector its rapid transformation, particularly on the distribution network and customer side. Trends like the rapid rise of self-generation and distributed generation, microgrids, demand response, the dissemination of electric vehicles and zero-net energy buildings that promise to turn many consumers into prosumers are discussed. The book brings together authors from industry and academic backgrounds to present their original, cutting-edge and thought-provoking ideas on the challenges currently faced by electric utilities around the globe, the opportunities they present, and what the future might hold for both traditional players and new entrants to the sector. The book's first part lays out the present scenario, with concepts such as an integrated grid, microgrids, self-generation, customer-centric service, and pricing, while the second part focuses on how innovation, policy, regulation, and pricing models may come together to form a new electrical sector, exploring the reconfiguring of the current institutions, new rates design in light of changes to retail electricity markets and energy efficiency, and the cost and benefits of integration of distributed or intermittent generation, including coupling local renewable energy generation with electric vehicle fleets. The final section projects the future function and role of existing electrical utilities and newcomers to this sector, looking at new pathways for business and pricing models, consumer relations, technology, and innovation. Contains discussions that help readers understand the underlying causes and drivers of change in the electrical sector, and what these changes mean in financial, operational, and regulatory terms Provides thought-provoking ideas on the challenges currently faced by electric utilities around the globe, the opportunities they present, and what the future might hold for both traditional players and new entrants to the sector Helps readers anticipate what developments are likely to define the function and role of the utility of the future

## Book Information

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"...present an excellent overview about the contemporary debate on possible trajectories of the electric industry. This is a complicated situation for industry executives, power business consultants and regulators. The contributions of the book should be of great value to them."

--Economics of Energy and Environmental Policy "Speculation about the falling costs of storage, microgrids and other technologies adds fuel to the current interest in utilities of the future. Among the main issues covered in this book is a discussion of a rational way to address these changes and find a constructive path forward." --EE Publishers

Dr. Fereidoon Sioshansi is President of Menlo Energy Economics, a consulting firm based in San Francisco with over 35 years of experience in the electric power sector working in analysis of energy markets, specializing in the policy, regulatory, technical and environmental aspects of the electric power sector in the US and internationally. His research and professional interests are concentrated in demand and price forecasting, electricity market design, competitive pricing & bidding, integrated resource planning, energy conservation and energy efficiency, economics of global climate change, sustainability, energy security, renewable energy technologies, and comparative performance of competitive electricity markets. Dr. Sioshansi advises major utility clients and government policy makers domestically and internationally on electricity market reform, restructuring and privatization of the electric power sector. He has published numerous reports, books, book chapters and papers in peer-reviewed journals on a wide range of subjects. His professional background includes working at Southern California Edison Co. (SCE), Electric Power Research Institute (EPRI), NERA, and Global Energy Decisions. He is the editor and publisher of Energy Informer, a monthly newsletter with international circulation. He is on the Editorial Advisory Board of The Electricity Journal where he is regularly featured in the "Electricity Currents" section. Dr. Sioshansi also serves on the editorial board of Utilities Policy and is a frequent contributor to Energy Policy. Since 2006, He has edited nine books on related topics with Elsevier.

This book is structured with different authors writing individual chapters. Examples from state and private sector actors are used. The book is a good introduction to some of the problems and opportunities presented in the transition to distributed generation and upcoming distributed storage.

This is a 'must read' for every strategic or technology leader and professional within the electric utility industry, as it helps to understand the drivers and choices the utilities have to shape their future.

Very useful and complete scope and discussions about how could be future power business. I like examples with real cases.

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