



# Electric Power Planning for Regulated and Deregulated Markets

By Arthur Mazer

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## Electric Power Planning for Regulated and Deregulated Markets By Arthur Mazer

As the industry environment transforms from a completely regulated setting to a broader, deregulated marketplace, new market participants must understand planning and operations of power systems to effectively participate in markets. This industry overview provides a description of utility operations and traditional planning, and then explains asset management, investment analysis, and risk management within the context of a market environment. Written to provide a broad, working knowledge of the industry, *Electric Power Planning for Regulated and Deregulated Markets*:

- Includes descriptions of generation and transmission network equipment
- Provides an overview of the regulatory framework, system design and systems operations for ensuring reliable delivery of power
- Presents system planning across different time horizons with the objective of minimizing power production costs
- Explains the principles and architecture of a market environment coupling operational imperatives with financial transactions
- Addresses approaches of various participants, including power producers, retailers, and integrated energy companies toward bidding in day ahead markets, managing risks in forward markets, portfolio development and investment analysis
- Provides numerous examples addressing cost minimization, price forecasting, contract valuation, portfolio risk measurement and others
- Examines past news events and explains what went wrong at Three Mile Island, the Northeast blackout of 2003, and the California energy crisis

This is an ideal reference for professionals in the public and private power service sectors such as engineers, lawyers, systems specialists, economists, financial analysts, policy analysts, and applied mathematicians.

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### Editorial Review

#### Review

"...an ideal reference for professionals and private service sectors.' Thus it is for power industry professionals." (*CHOICE*, September 2007)

"...a comprehensive book by an insider..." (*Electrical Apparatus*, July 2007)

#### From the Back Cover

A practical, accessible introduction to the evolving electric power industry

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#### About the Author

**Arthur Mazer**, PhD, MBA, is Manager of Forward Transactions Planning at Southern California Edison, where he oversees the risk assessment of SCE's power, gas, and customer portfolio, as well as valuation and selection of power and gas contracts. He previously held positions at Electrabel, Progress Energy, and Entergy Power Marketing Corp. Additionally, he was visiting assistant professor at Utah State University and a lecturer at Singapore Polytechnic, both in the Department of Mathematics.

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