Power System Planning Technologies and Applications: Concepts, Solutions and Management

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Planning is an important function of the management of any business, providing knowledge of future prospects and enabling prudent and appropriate decision-making. Planning is especially critical for power systems, since electricity is a fundamental part of modern societies and many conventional electrical energy resources currently in use are limited.

Power System Planning Technologies and Applications: Concepts, Solutions and Management focuses on the technical planning of power systems, taking into account technological evolutions in equipment as well as the economic, financial, and societal factors that drive supply and demand and have implications for technical planning at the micro level. With this book, researchers, practicing engineers, regulators, policy makers, and investors will have a better understanding of the intricacies of power system planning and, therefore, improve their decisions about the future.

Topics Covered:

- Demand Side Management
- Energy Efficiency
- Generation Expansion
- Integrated Resource Planning
- Investment Analysis
- Load Information and trends
- Principles of Load Forecasting
- Regulatory and Market Constraints
- Renewable Energy Technologies
- Transmission Expansion


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Load Research

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