



Microgrid Load Optimization Based on Generalized Demand Side Resources (Hardback)

By Yimin Zhou

NOVA SCIENCE PUB INC, 2018. Hardback. Condition: New. Language: English . Brand New Book. The current power grid in China has a series of problems, such as aging infrastructure, the growing lack of resources, and the continued growth of energy demand and environmental pollution, which proposes new requirements for national grid construction. The smart grid is the trend for the future development of the power grid. The smart grid emphasizes interaction with user information and energy. The user energy management system can adjust and optimize the charging and discharging of the energy storage device according to the user s dynamic real-time load. It can quickly and accurately predict power load, change user electricity consumption behavior through the price mechanism so as to achieve load shifting, energy conservation and improve power supply efficiency. The distributed power system including renewable energies has quite a number of uncertainties, and electric usage behavior is random with a high degree of freedom, which is a complex system with multiple time scales and strong coupling. Therefore, how to effectively manage the uncertainty of the intermittent power, energy conversion equipment and the diversity of load variation are important problems which should be solved in the first place...



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