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5.4. Cash-Flow Consolidation5.5. Application Example; 6. Concluding Remarks; References; Chapter 3: Potential of Sodium-Sulfur Battery Energy Storage to Enable Further Integration of Wind; 1. Introduction; 2. Energy storage as an alternative; 2.1. Energy storage in electricity markets; 3. Sodium-Sulfur battery energy storage; 3.1. Principle; 3.2. Target applications and existing installations; 3.3. The Sodium-Sulfur battery at Luverne, Minnesota; 3.3.1. Emulation of different storage-to-wind ratios; 4. Generation shifting; 4.1. Charging/discharging simulation
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2. Overview of Secondary Regulation Control

Sommario/riassunto

Energy storage is a main component of any holistic consideration of smart grids, particularly when incorporating power derived from variable, distributed and renewable energy resources. Energy Storage for Smart Grids delves into detailed coverage of the entire spectrum of available and emerging storage technologies, presented in the context of economic and practical considerations. Featuring the latest research findings from the world's foremost energy storage experts, complete with data analysis, field tests, and simulation results, this book helps device manufacturers develop robust busi
