



Technology and Applications of Power Electronics and Dispatch Strategy with Optimization and Power System Analysis in Renewable Energy Systems: Current Perspectives, Future Needs and Challenges

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Message from the Guest Editors

The escalation of power-electronic-based renewable energy sources into the grid has led to stability and dynamic response concern. Power-electronic-based resources can render various ancillary services with advanced control strategies. To fully utilize the capability of power conversion, a comprehensive modeling and integration of a large-scale system is essential to understand and maintain a stable operation of power grids with the penetration of power-electronic-based renewable resources. Efficient generation of green energy is the prime challenge for researchers in this field. Due to the rapid industrialization, energy demand is increasing drastically, whereas the natural sources of energy, such as coal, oil, and natural gas, are limited. Hence, the only way to overcome the challenge is the development of renewable and inexhaustible energy...

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