



Advances in Stability Control, Optimal Operation and Modeling Analysis of Power System with High-Level Renewable Energy

Guest Editors:

Dr. Bo Zhang

School of Electrical and Electronic Engineering, North China Electric Power University, Baoding 071003, China

Dr. Jiaoxin Jia

Key Laboratory of Distributed Energy Storage and Microgrid of Hebei Province, North China Electric Power University, Baoding 071003, China

Dr. Sen Cui

Department of Electrical Engineering, Tsinghua University, Beijing 100084, China

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Message from the Guest Editors

The development of renewable energy resources (RES) has become an obvious choice as the world is obligated to support green energy and achieve carbon neutrality. In this context, a high proportion of RES with large capacity access has gradually become a typical feature of new power systems.

This Special Issue aims to provide a forum for all scholars to present their discoveries on technological developments in renewable energy and sustainability. Research areas may include (but are not limited to) the following:

1. Modeling and control of solar, wind, energy storage and emerging generation;
2. Modeling and analysis of renewable energy delivery system;
3. Flexible networking technology of RES;
4. Sensing technology of voltage spatial-temporal distribution;
5. Virtual inertia and primary frequency modulation control;
6. Inertia identification and evaluation analysis;
7. Volt/var optimal control of active distribution network based on RES;
8. Voltage regulation and power compensation strategy;
9. Inertia optimal configuration power system with high-level RES;
10. Virtual synchronous generator;
11. Energy management and tidal current control.





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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Sustainability Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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