Special Issue

Power Grid on Energy Great Transition with High Penetration of Renewable Energies

Message from the Guest Editor

The objective of this Special Issue is to address, discuss, and present the novel theories, methods, and applications to the power grid on energy great transition. Topics of interest for publication include, but are not limited to:

- Methods to obtain the grid-connected flexibility and maximize the allowable capacity
- New system structures with interconnection of AC and DC
- Smart inverter and active distribution system
- Applications of FACTS and HVDC
- Short-term and long-term planning of power system with the high penetration of renewable energies
- Cooperative operation and energy management of transmission and distribution systems
- Converter-level and plant-level controls of wind power and photovoltaic generations
- Short-term and long-term grid-level cooperative control for different types of power plants
- Improvement of stability with respect to frequency and voltage of system
- Real-time fast state estimation algorithms

Prof. Jung-Wook PARK

Guest Editor

Prof. Dr. Jung-Wook Park
School of Electrical & Electronic Engineering, Yonsei University, Seoul 03722, Korea

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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