



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

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### Message from the Guest Editor

Dear Colleagues,

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





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## Message from the Editor-in-Chief

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