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Sustainable Energy Storage and Power System Design in the Context of Carbon Neutrality

Guest Editors:

Prof. Dr. Weiging Sun

Department of Electrical Engineering, University of Shanghai for Science and Technology, Shanghai 200093, China

Dr. Haibing Wang

Department of Electrical Engineering, University of Shanghai for Science and Technology, Shanghai 200093, China

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Message from the Guest Editors

Under the goal of carbon neutralization, many countries are upgrading their power systems. More and more new energies are being connected to the grids. Location, sizing, and operation of the energy storage systems are key issues of sustainable development. Power system design with multi-link energy storage is a new problem. This Special Issue focuses on multi-values of energy storage, among which the coordinate planning and operation, the business model, the profit distribution, the carbon benefits, etc., are especially of interest.

The main topics include, but are not limited to:

Modeling and planning of energy storage systems; Energy storage participates in the optimization of power grid regulation; Energy storage participates in market operation strategy optimization; Differentiated configuration of energy storage; Research on interaction between energy storage and new energy generation; Joint expansion planning of electric energy storage and other energy networks; Novel market mechanism and business model caused by energy storage; Carbon dioxide emission reduction using variety kinds of energy storage.









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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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