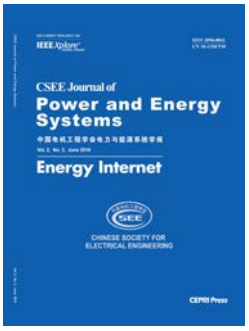

Joint Publication of CSEE and IEEE (Online Open Access) CSEE JPES

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Important Dates

Full paper Submission
Dec. 31th, 2017
Final decision notification
Mar. 15th, 2018
Publication of Special Issue
May 30th, 2018

China Electric Power Research Institute Press

Call for Papers

Special Issue "Towards Smarter Regional-user Level Integrated Energy Power Systems"

Recent years have seen rapid developments in energy conversion technologies such as cogeneration, power to gas and heat pumps; diversification of energy development both on the supply side and demand side; and innovation in energy transmission technology. These developments have promoted Integrated Energy Power Systems (IEPS) that enable coordination and optimization of energy generation, transmission, conversion, storage, and utilization in conjunction with multiple energy carriers including electricity, gas and heat.

A regional level IEPS can combine an intelligent power distribution system, medium and low pressure natural gas system, district heating/cold/water system and other energy supply networks, to provide the services of energy distribution, conversion and energy balance. A user level IEPS is typically coupled with an intelligent power system, multi-source microgrid, distributed/centralized heating system, water supply system and other energy networks. It is an important part of the integrated energy production and marketing system on the demand side. Regional-user level IEPS are characterized by a wide range of energy coupling units and energy interaction scenarios. IEPS provide an important framework for exploring complementary features and promoting advanced energy technologies on both academic and industrial fronts.

The key technologies of regional-user level IEPS are developed rapidly, but faced with scientific and practical implementation challenges. This special issue is intended to present the latest scientific progress, development trends and demonstration projects in regional-user level IEPS.

Topics of interest of this Special Issue include, but are not limited to the following aspects:

- Methods and theories of modeling and simulation in regional-user level integrated energy power system
- Co-planning and multi-dimensional assessment analysis in regional-user level integrated energy power system
- Technologies of operation, control and energy management in regional-user level integrated energy power system
- Research and development of key support equipment in regional-user level integrated energy power system
- Information and communication technology in regional-user level integrated energy power system
- Multi-source energy storage technology in regional-user level integrated energy power system
- Integrated demand side management technology in regional-user level integrated energy power system
- Benefit assessment, business model and energy policy in regional-user level integrated energy power system
- Advanced demonstration projects in regional-user level integrated energy power system

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