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Journal of Modern Power Systems and Clean Energy

Special Issue on Low-Carbon Electricity

Increasing greenhouse gas emissions are the main cause of global warming, which will pose a serious threat to society in the foreseeable future. The development concept of "Low-Carbon Economy" has been receiving more and more attention and support all over the world since the British government first put it forward in 2003. The idea of a "Low-Carbon Economy" is promoted as the implementation of coordinated development among economy, energy and the environment by reducing CO2 emissions, adjusting energy structures and improving energy efficiency – which essentially means a global revolution related to production methods, lifestyles, values and national interests and will represent a huge stride from an industrial civilization to an ecological economy civilization. China has now also made a major commitment: emissions of CO2 per unit of GDP will be reduced by 40% ~ 45% by 2020, compared with the emissions in 2005.

As the power industry is the main source of CO2 and other greenhouse gases, developing low-carbon electricity technologies is the fundamental way to meet the challenge of global warming. MPCE invited Professor Chongqing Kang from Tsinghua University as a guest editor-in-chief to organize a special issue on "Low-Carbon Electricity." The special issue will discuss not only the low-carbon challenges that the power industry currently faces, but also the feasible development mode, method, mechanism of low-carbon. Furthermore, it will cover policy proposals, market design, compensation methods, the implementation process, etc., and will explore power system planning, low-carbon operation technologies and other key issues in engineering practice. It will gather the findings and experiences of as many related experts in the field of low-carbon electricity technologies as possible in order to present theoretical methods, mechanisms, policies, technical support and references.
The topics of interests include, but are not limited to:

- Low-carbon power development approaches and policy support schemas for encouraging clean technologies in power systems
- Low-carbon power investment and planning
- Impact of carbon policies (e.g., cap and trade/carbon taxes) on power system operation and planning
- Electricity market design towards a low-carbon economy
- Grid low-carbon technology (including SF6 emissions reduction, etc.)
- New expansion planning models and frameworks that promote low-carbon technologies
- Low-carbon efficiency analysis and evaluation of power systems
- Low-carbon power system scheduling technology
- Advanced power system operation methods for reducing GHG emissions
- Carbon capture and clean energy generation technology
- Impact of carbon capture and storage on power system planning and operation
- Interaction between the carbon market and electricity market
- Comprehensive utilization technology for low-carbon energy
- Carbon flow modeling in power system operations
- The influence on power system planning and operation caused by carbon emissions

Submission Guidelines
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