



CALL FOR PAPERS

Journal of Modern Power Systems and Clean Energy

Special Issue on Low-Carbon Electricity

The increasing emission of greenhouse gases is the main cause of global warming. In the foreseeable future, it will be a great threat to our society. The development concept of "Low-Carbon Economy" is getting more and more attention and support all over the world since the British government put forward it in 2003. "Low-Carbon Economy" is promoted to realize the coordinated development among economy, energy and environment by reducing emission of CO₂, adjusting energy structure and improving energy efficiency. The essence is a global revolution related to production mode, life style, value and national interests. It represents the great progress from industrial civilization to ecological economy civilization. China also made the responsible commitment: The emission of CO₂ per unit of GDP will be reduced by 40% ~ 45% until 2020, compared with the emission of 2005.

The power industry is the main source of CO₂ and other greenhouse gases. Developing the Low-Carbon electricity technologies is the fundamental way to meet the challenge of global warming for the power industry. 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 which power industry faces, but also the feasible development mode, method, mechanism of low-carbon. Furthermore, the special issue involves the policy suggestion, market design, compensation method, technical route during the process of implementation, etc. The special issue is expected to explore the power system planning, low carbon operation technology and other key issues in engineering practice under the mode of Low-Carbon economy. The special issue will collect the research results and experiences as many as possible from the related experts in the field of Low-Carbon electricity technologies to provide theoretical methods, mechanism, policy, technical support and references.

The topics of interests include, but are not limited to:

- Low-Carbon power development mode 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 emission reduction, etc.)
- New expansion planning models and frameworks that induce low-carbon technologies
- Low-Carbon efficiency analysis and evaluation of power system
- Low-Carbon power system scheduling technology
- Advanced power system operation methods for reducing GHG emissions

- Carbon capture and clean generation technology
- Impact of carbon capture and storage on power system planning and operation
- Interaction between carbon market and electricity market
- Comprehensive utilization technology of Low-Carbon energy
- Carbon flow modeling in power system operations
- The influence on power system planning and operation caused by carbon emission

Submission Guidelines

<http://www.editorialmanager.com/mpce> or link via

<http://www.springer.com/40565>

<http://www.mpce.info>

(The paper template can be downloaded from <http://www.mpce.info>.)

Deadlines

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