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Panel Session 15

The Key Technology of Integrated Layout of Source, Network, Load and Storage in New Power System

INTRODUCTION AND TOPICS

As the proportion of new energy continues to increase, the uncertainty of new energy power generation and the randomness of terminal user energy consumption behaviors are becoming increasingly prominent. This gradually leads to phenomena such as node blocking and insufficient regulatory resources, posing significant challenges to the safe and stable operation of the novel power system.

At the same time, the construction of new energy is still in rapid development, but issues such as where to build, when to build, and what kind of resources to match have not yet been supported by a relatively complete technical system for the construction of the novel power system.

There is an urgent need to develop integrated layout technology of source-grid-load-storage aimed at the novel power system. This involves building a comprehensive technical system from multiple dimensions, including planning and construction, Operational control, and market incentives, to support the coordinated development of integrated layout technology of source-grid-load-storage in the novel power system.

PANEL SESSION CHAIRS

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Wang Yongli is a professor and doctoral supervisor at the College of Economics and Management, North China Electric Power University.He has participated in live video interviews with CCTV's "News 1+1" program and has contributed to key publications such as Xinhua News Agency's "Outlook" Weekly.In the field of scientific research, responsible for 2 Natural Science Foundation of China, 1 General Humanities and Social Sciences item of Ministry of Education, and multiple Provincial key R & D plans.The main research directions include energy internet, integrated energy system, energy resources economical management, power load forecasting, and Technical and economic analysis and evaluation.

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Professor Zeng Ming is the director of the Energy Internet Research Center at North China Electric Power University, currently serving as a doctoral supervisor, professor, deputy director of the Digital Economy Committee of the China Energy Research Society, deputy director of the Digital Technology and Industry Committee of the China Electric Power Society, deputy director of the Blockchain Committee of the China Electric Power Society, vice president of the Comprehensive Energy Service and Power Sales Branch of the China Electric Power Industry Federation, deputy director of the Energy Internet Professional Technical Committee of the IEEE PES, and chief expert of the National Social Science Fund Major Project.

PAPER SUBMISSION

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