

Special Session V

Special Session Basic Information:

专栏题目 Session Title	中文：面向碳中和的电力系统运行与规划先进技术 英文：Advanced Technologies for Power System Planning and Operation towards Carbon Neutrality
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专栏介绍和征稿主题 Introduction and topics

中文： 在我国碳中和目标推动下，电力系统作为能源低碳转型的核心，正迎来向新能源为主体的关键变革。可再生能源大规模整合是实现电力系统减排的重点，而储能、需求侧响应等技术手段则是确保电力系统稳定运行和灵活调度的关键支撑。因此，本专题以碳中和为背景，聚焦电力系统规划与运行，旨在深入探讨如何通过先进技术助力新型电力系统的低碳转型。 英文： Driven by China's carbon neutrality goals, the power system, as the cornerstone of low-carbon energy transition, is experiencing a pivotal shift towards a paradigm dominated by renewable energy sources. The large-scale integration of renewable energy stands as a primary strategy for achieving emission reductions within the power system. Meanwhile, technologies such as energy storage and demand-side response serve as essential mechanisms to ensure stable operation and flexible dispatch. Against this background of carbon neutrality, this session centers on power system planning and operation, aiming to provide an in-depth exploration of advanced technologies that facilitate the low-carbon transition of future new power system.

Special Session Chair(s):

	姓名 Name	罗仕华
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Organizer's Brief Biography

中文： 罗仕华，2019 年获电子科技大学电气工程及其自动化专业学士学位，2024 年获电子科技大学控制科学与工程专业博士学位。现任电子科技大学副研究员、师资博士后，主要研究方向为电力系统与能源系统规划，已发表 SCI/EI 论文 10 余篇。 英文： Shihua Luo, received the B.S. degree in electrical engineering and automation from University
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of Electronic Science and Technology of China in 2019, received the Ph.D. degree in control science and engineering from University of Electronic Science and Technology of China in 2024. He is currently an associate professor and teacher postdoctoral fellow at University of Electronic Science and Technology of China, Chengdu, China. His main research interests are power system and energy system planning, and he has published more than 10 SCI/EI papers.

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	Organizer's Brief Biography	
中文：郭中杰，电子科技大学特聘副研究员、师资博士后；2023 年 6 月毕业于清华大学电机系，获电气工程博士学位；主要从事不确定性优化决策理论、电力系统规划与调控、新型储能技术等领域研究；入选青海省“昆仑英才”计划、国家资助博士后研究人员计划；发表 SCI/EI 论文 20 余篇，主持国家自然科学基金青年科学基金项目、中国博士后科学基金面上资助项目。 英文：Zhongjie Guo is an associate research fellow and postdoctor at the University of Electronic Science and Technology of China. He received his Ph.D. in electrical engineering from Tsinghua University in June 2023. His research focuses on uncertainty optimization and decision-making theory, power system planning and regulation, and advanced energy storage technologies. He has been selected for Qinghai Province's "Kunlun Talents" Program and the National Postdoctoral Fellowship Program. He has published over 20 SCI/EI papers and is the principal investigator of projects funded by the National Natural Science Foundation of China (NSFC) Youth Science Fund and the China Postdoctoral Science Foundation General Grant.		