

IEEE I&CPS ASIA 2023 SPECIAL SESSION ON

Optimal Planning and Operation of Regional Integrated Energy Systems
Under the Scalable Aggregation of Flexibility Resources

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IEEE I&CPS
—Asia 2023—

2023 IEEE IAS Industrial and
Commercial Power System Asia Conference

July 7–9, 2023 | Chongqing, China

CONFERENCE INTRODUCTION

Sponsored by IEEE, IEEE IAS, organized by Chongqing University, China Electrotechnical Society, co-organized by University of Electronic Science and Technology of China, Shandong University, North China Electric Power University, Supported by Global Energy Interconnection and DeCarbon. 2023 IEEE IAS Industrial and Commercial Power System Asia (IEEE I&CPS Asia 2023) Conference will be held during July 7–9, 2023 in Chongqing, China.

SPECIAL SESSION ON

Session Title: Optimal Planning and Operation of Regional Integrated Energy Systems Under the Scalable Aggregation of Flexibility Resources

Special Session Organizer: Dr. Fangyuan Si, Tsinghua University

Abstract: Maintaining a real-time balance between energy supply and demand is fundamental to ensuring energy systems' safe and stable operation. However, in the context of China's low-carbon energy strategy, the rapid development of new energy sources such as wind and solar power, which are characterized by intermittency and volatility, poses significant challenges to system stability and safety. Increasingly, the imbalance between supply and demand has led to issues such as wind and solar energy curtailment and periodic shortages in energy supply. Moreover, China's current energy structure is still dominated by thermal power, and the availability of fast, flexible, and low-carbon regulation resources is relatively limited. Furthermore, as energy forms such as electricity, heat, cold, and natural gas become increasingly coupled in multiple stages, relying solely on a single energy system and traditional control modes that follow the load is no longer sustainable. Therefore, it is necessary to promote regional integrated energy systems (RIES) on the user side to integrate distributed generation, combined cooling, heating, and power (CCHP), energy storages, and multi-energy loads into system scheduling and operation.

For more details, please visit at <http://iee-icps.com/2023/ss006.html>

PAPER SUBMISSION IMPORTANT DATES:

Submission Deadline: April 15, 2023

Notification Deadline: May 15, 2023

PUBLICATION

Submissions to IEEE I&CPS 2023 will be peer reviewed on the basis of technical quality, relevance to conference topics, originality, significance, clarity, etc. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

Excellent papers will be recommended for review by IEEE Trans on Industry Applications (proportion can reach up to 50%), Global Energy Interconnection and DeCarbon.

SUBMISSION REQUIREMENTS

- The submission has not been previously published, nor is it before another conference for consideration (or an explanation has been provided in Comments to the Director).
- Prospective authors should prepare a completed final manuscript following IEEE template, with titles and names, affiliations, addresses, and email of all co-authors.
- All submissions should be written in English with a maximum paper length of six (6) printed pages including figures and references without incurring additional page charges (maximum 4 additional pages with over-length page charge for an additional fee, if accepted) in the standard IEEE two-column conference format. The fee for the additional page can be seen here. Papers exceeding 10 pages will not be accepted.

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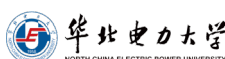


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