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New Insight into Operational Optimization of Integrated Energy Systems

Guest Editor:

Dr. Yongli Wang

School of Economics and
Management, North China
Electric Power University, Beijing
102206, China

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Message from the Guest Editor

Integrated energy systems can integrate multiple energy resources in a region and realize coordinated planning, optimized operation, collaborative management, and interactive responses and complementary mutual benefits among multiple heterogeneous energy subsystems, as well as effectively improve energy utilization efficiency while meeting the diversified energy demand, and thus promote sustainable energy development. However, the operation optimization of integrated energy systems involves multiple heterogeneous energy synergies and multiple energy subjects, and its operation optimization and scheduling control is difficult. The time scales and scheduling principles of each energy subsystem differ greatly in terms of actual operation and scheduling, so it is difficult to conduct simulation analysis and coordinate control under the same time scale and unified scheduling principles. At the same time, the randomness of various types of energy loads and renewable energy output on the customer side present a challenge for the operation optimization of the integrated energy systems.



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Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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