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Integrated Energy Resource Planning and Operation for Active Distribution Network

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Message from the Guest Editors

Dear Colleagues,

As massive, distributed energy sources are integrated into the power distribution network, traditional distribution networks have been evolving into an active distribution network (ADN). Thanks to the development of photovoltaics (PVs), wind turbines (WTs), energy storage (ESS), electrical vehicles (EVs), controllable loads (CLs), etc., all of these distributed energy sources (DESSs) are introducing planning and operation challenges into ADN. On the one hand, although the capacity of each individual DES is small, the number of DES integrated into the ADN is growing larger and larger, making the integrated controllability massive and essential for ADN. On the other hand, the intermittence and fluctuations of DESSs lead to bi-directional power flows and frequent variations in the operation state. How to plan and control the integrated DES within the ADN has attracted significant attention from academic and industry researchers.

This Special Issue aims to present and disseminate state-of-the-art integrated DES planning and operations for ADN.



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Special Issue



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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