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Local Energy Systems: Modeling, Control, Optimization, and Applications

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Deadline for manuscript submissions:

closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

The energy transition is shifting from large national energy systems to local energy systems in communities, neighborhoods, districts, villages, and business parks. During this process, each local system requires its own sustainable, reliable, and affordable design, operation, and control scheme. Novel approaches are also needed to optimize network architecture, planning, and development based on the opportunities offered by integrated local energy systems and enabled by digitalization and power electronics (PE).

This Special Issue offers a major forum for the reporting of advances in modeling, control, optimization, and application of local energy systems as building blocks of future smart, flexible, and low-carbon energy systems. Similarly, the Special Issue also focuses on recent advances in cross-border cooperation in the energy sector on a wide range of topics.











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Message from the Editor-in-Chief

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