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Microgrid-Based Co-optimization of Generation, Transmission, and Distribution Planning in Power Systems

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Message from the Guest Editor

microgrids have gained a lot of popularity among researchers and many have been built by either utilities or third-party entities. Utilities have implemented not only BES-connected (bulk electric system) demonstration projects, but also islanded microgrids (where isolated generation is a proxy for transmission). Meanwhile, many countries' Departments of Defense and Energy have spearheaded the implementation of both islanded and BES-connected microgrids to increase electricity availability for mission critical activities. Campus-style microgrids have also gained popularity, allowing increasing independence from the BES. Regardless of the microgrid categorization, the exercise of implementing the technology requires wholistic operation with generation, transmission, and distribution systems.

The main topics of interest for this Special Issue include, but are not limited to:

- Smart grids
- Microgrids
- Distributed energy resources
- Power system planning
- Power system reliability
- Power quality, protection, and grounding

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Message from the Editor-in-Chief

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