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

Guest Editor:

#### Dr. Alexandre B Nassif

ATCO Electric, Edmonton, AB T2G 1S6, Canada

Deadline for manuscript submissions: closed (10 December 2021) 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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#### Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

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*Energies* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/energies energies@mdpi.com X@energies\_mdpi