

Special Issue

Microgrid and Smart Grid: Latest Advances and Prospect

Message from the Guest Editors

With the ongoing transformation of global energy systems, microgrids and smart grids are vital for providing solutions to create a more resilient, flexible, and sustainable energy infrastructure. These systems are critical for decentralizing energy generation, enabling renewable integration, and enhancing energy management. As new technologies emerge, from advanced energy storage to intelligent control systems, the need for innovative strategies and solutions is growing. This Special Issue invites contributions from researchers, industry experts, and policymakers that explore the latest developments, breakthroughs, and future directions in microgrid and smart grid technologies. Our goal is to highlight the cutting-edge research shaping the future of smart energy networks, as well as to address the practical challenges and opportunities related to their deployment. We encourage submissions that not only delve into technical aspects but also explore the regulatory, and environmental implications of microgrid and smart grid advancements. Papers offering innovative solutions or presenting forward-looking research will be highly valued.

Guest Editors

Dr. Vikram Roy Chowdhury

Power Systems Engineering Center, National Renewable Energy Laboratory, Golden, CO 80401, USA

Dr. Alberto Benato

Department of Industrial Engineering, University of Padova, 35131 Padova, Italy

Deadline for manuscript submissions

closed (20 December 2025)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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