Special Issue

Smart Microgrid and Sustainable Management in Virtual Power Plant (VPPs)

Message from the Guest Editors

In this Special Issue, we invite original and unpublished research in areas including (but not limited to) the development and advancement of smart microgrids and sustainable management in virtual power plants (VPPs), including smart microgrids. The main goal is to provide key information needed to inform readers on the sustainable use of VPP systems and management of future electricity networks with massive penetration in terms of renewable energy sources. This includes using various control methods and energy management algorithms to master and control the sustainability of virtual power plant systems (innovative technologies, operations and energy production systems, autonomous systems, power dispatch, robustness and stability, etc.). We are also interested in microgrids in smart buildings (residential, commercial, industrial) and advancements made in the ICT of microgrids/VPPs for smart energy communities and local energy markets (including blockchain, DLT, IoT, etc.). Contributions that study the dispatchable and nondispatchable renewable energy systems in VPP systems within the main energy system are also welcome.

Guest Editors

Dr. Allal El Moubarek Bouzid

Prof. Dr. Mohamed Benbouzid

Dr. Seifeddine Ben Elghali

Dr. Mohamed Zerrougui

Deadline for manuscript submissions

closed (26 March 2023)



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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

mdpi.com/journal/ sustainability





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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G OC5, Canada

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