



Microgrids and Virtual Power Plants (VPPs) in Smart Energy Communities and Local Energy Markets

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Deadline for manuscript
submissions:

closed (31 October 2021)

Message from the Guest Editors

In this Special Issue, we invite original and unpublished research work in areas including (but not limited to):

- Innovative design and control of community-based microgrids and VPPs
- Integrating renewable energy, thermal/electrical energy storage, electric vehicles, heat pump integration for a net-zero energy community
- Power quality and energy management in microgrids/VPPs for smart energy communities and local electricity markets
- Participation of community microgrids/VPPs in local grid ancillary services and local energy markets (LEMs)
- Impacts of local microgrids/VPPs/LEMs on the distribution network
- Energy trading between communities (interaction between local energy markets)
- Microgrids in smart buildings (residential, commercial, industrial)
- Techno-economic modelling and optimisation of community and local microgrids/VPPs for market participation and energy services
- Advancement in control for microgrids/VPPs for smart energy communities and local electricity markets
- Advancement in ICT for microgrids/VPPs for smart energy communities and local energy markets (including blockchain, DLT, IoT, etc.)





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Message from the Editor-in-Chief

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