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# Renewable Energy Technologies and Microgrids

Guest Editor:

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Deadline for manuscript submissions:
**closed (31 January 2024)**

## Message from the Guest Editor

Dear Colleagues,

Nowadays, the presence of renewable energy sources (RESs) has significantly increased in power systems around the globe. There is a wide range of motivations for this, such as the generation of clean energy, depletion of fossil fuel sources, and environmental issues that encourage the use of RESs in power systems. In addition to all these advantages, volatility is an example of drawbacks in the RESs that influence the function of the power system. The ESSs store surplus energy generated by photovoltaic and wind turbine systems, which can be utilized when the system meets a shortage of RES power generation. In addition to the uncertainties of the power generated by RESs, there are other uncertain parameters in power systems. The market power price is the most essential factor, as it has a significant impact on the total running costs of MGs in the grid-connected mode. The system's impacts on all of the aforementioned uncertainties should be thoroughly investigated, and various strategies should be implemented. Finally, the demand response programs have been widely used in MGs in order to deal with high operation costs.

Dr. Sayyad Nojavan
*Guest Editor*

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