



Planning and Operation of Renewable Energy Systems

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Message from the Guest Editor

While there is an ever-increasing effort towards achieving zero-emission energy generation systems, there are still various concerns regarding the satisfactory integration of renewable energy resources. This is mainly due to the intermittent nature and fluctuation of such energy resources. Moreover, attempts to achieve stable operation are met with further challenges caused by the dispersed nature of renewable energy generators. There is a great need for these concerns to be properly addressed through the development of more efficient planning and operational methods. This *Special Issue* aims to cover technical issues in the planning and operation of renewable energy systems (RESs) to promote clean energy utilization while improving energy efficiency. Topics of interest include but are not limited to the following:

- Optimal methods in both planning and operation of RESs;
- Efficient strategies for dynamic evaluation of RESs;
- Small signal and large signal stability analysis of RESs;
- Appropriate protection scheme for RESs;
- Reliability considerations in both planning and operation of RESs;
- Challenges with RESs in off-grid microgrids;
- Power electronics interfaces for RESs.





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Message from the Editor-in-Chief

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