

# Guest Editorial: Demand Side Management and Market Design for Renewable Energy Support and Integration

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Demand side resources are becoming increasingly important in the successful market integration of renewable energy. The flexibility benefits arising from demand side management allow balancing the uncertainty and variability of renewable generation. Electricity markets should also be designed to support higher renewables penetration rates. To this end, the impacts associated with transportation electrification, the advent of prosumers and the expansion of distributed generation will propel the active role of demand side in the market environment. Together with more stringent decarbonisation targets and higher grid integration of renewables, a number of challenges for the electric energy sector remain a barrier to achieving a smarter grid.

To reflect the importance of this subject topic in the field, Demand Side Management and Market Design for Renewable Energy Support and Integration is one of 12 subject categories used to define the scope of the journal under a new Subject Editor workflow.

In this Special Issue, we invited original and unpublished submissions on demand side management and market design for renewable energy support and integration. In response to the call for papers for this Special Issue, 93 full papers were received and thoroughly reviewed. After review 19 high-quality manuscripts were accepted that were submitted by authors in China, UK, Iran, India, Australia, Egypt, USA, Portugal, Spain, Japan and Ireland.

The Guest Editorial Board would like to thank IET *Renewable Power Generation* for providing this platform for us to organise this Special Issue, the authors for their innovative and valuable contributions, and also the reviewers for their prompt and comprehensive feedback and suggestions.

Special thanks go to the Editor-in-Chief, David Infield and the journals development and Editorial teams for the excellent and continuous support.

We hope that you find this Special Issue interesting and useful, serving also as a reference for future work in the field.

Demand Side Management and Market Design for Renewable Energy Support and Integration remains a subject category on the journal if you wish to contribute your own research under this topic.

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