

Special Issue

Innovative Solutions for Integration of Distributed Energy Resources

Message from the Guest Editors

The deployment of distributed energy resources (DERs) and renewable energy resources in electrical grids is significantly increasing throughout the world. Influenced by the increasing penetration of “behind-the-meter” DERs, power systems are experiencing a paradigm shift from a centralized structure to a decentralized one. An increasing number of customers in electricity markets are seeking to mitigate rising electricity prices and reduce their greenhouse gas emissions by deploying their own on-site renewable generation and storage. These changes will require the development of innovative approaches and technology solutions to ensure the efficient integration and coordination of DER. Efficient DER integration is expected to increase the value of local management of these resources and provides DER owners with the opportunity to maximize the return on their investment taking into account the increasing digitalization of the energy sector with more advanced communication technologies. From a grid perspective, coordinated and controlled use of DERs can provide substantial benefits for the stability of the broader network.

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