



Microgrids and Active Distribution Networks

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Message from the Guest Editors

Conventional power systems around the world are facing the problems of gradual depletion of fossil fuel resources, poor energy efficiency, and environmental pollution. Technical development in the field of DERs is also resulting in the formation of MicroGrid (MG) and active distribution networks (ADISNET). These are LV power supply networks comprising integrated DERs, which are designed to supply power to small communities, operating either in synchronism with the MV regional grid or as stand-alone systems. MG and ADISNET offer a potential solution for sustainable, energy-efficient power supply to cater for increasing load growth, supplying power to remote areas, the generation of clean power, and the reduction in emission of greenhouse gases and particulates as per the Kyoto protocol.

This Special Issue will showcase the impacts of the issues discussed above. It deals with basic concepts, technical features, operational and management issues, and market participation, in deregulated environments of distributed generation (DG) systems, and the integration of distributed energy resources (DER) in the form of microgrid/active distribution networks in a broad perspective.





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Message from the Editor-in-Chief

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