

Special Issue

Planning, Analysis and Optimization of Smart Multi Energy Systems

Message from the Guest Editors

Currently, we are driving a revolution by pushing new technologies, such as renewable energy systems (RES) demand side management and demand response into our energy system in order to make them more sustainable, smarter and integrated becoming so a smart multi energy system (MES). RES and sustainable generation technologies are often connected to electricity distribution networks in the form of distributed generation, at the low voltage or medium voltage (MV) level and can modify the operation of electricity network. The direction of power flows in the MV lines and even in high voltage/medium voltage (HV/MV) transformers can be reversed, voltage profiles are modified, fault management is affected. Therefore, distribution networks need to become smart and new control strategies, algorithms and technologies need to be tested and validated before their implementation and installation in real systems. In this Special Issue, we are particularly interested in innovative solutions for planning, analysis and optimization of smart MES in order to foster this radical change.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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