



Developing Multi-Energy Systems: Technologies, Methods and Models

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Environmental aspects have been emphasized in designing smart energy systems where sustainable development is a crucial factor. Sustainable development in the energy sector has been introduced as an eventual solution for improving the energy systems to comply with the smart energy requirements considering the environment and energy provision. The development of distributed energy resources such as energy converters and storage can also increase the dependency of energy carriers. On this basis, the cross-impact of various energy vectors should be investigated under the concept of multi-energy systems (MES). Developing technologies, methods, and models in the planning and operation of MES should provide a sustainable system with enhanced flexibility to satisfy the energy demand. To this end, renewable energy resources, energy storage systems, demand response, and electric vehicles will play a key role. This Special Issue aims at encouraging researchers and industries to address their solutions for the design of the system structure as well as of operational and control models for sustainable MES.

Dr. Miadreza Shafie-khah

Guest Editor





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