

Special Issue

Sizing and Optimal Control of Energy Storage in Energy Markets

Message from the Guest Editors

Renewable energy sources (RES) are today a rising solution to face climate change, environmental pollution and increasing global demand on energy. Renewable energies cover over 20 % of electricity generation, and more than 10% of the total final energy consumption worldwide. Over the last few years especially, variable renewable energy sources (VRES) are experiencing worldwide development. Nevertheless, the integration of VRES in grids also involves some challenges related to stability and reliability which are mostly caused by the high uncertainty of their production forecast and variable nature. The stochastic nature of the VRES affects the production of energy, unbalancing the system. This reduces their controllability, complicates the operation of the system, notably from the economic point of view compared to other more traditional electricity generators. This calls for increased flexibility of the energy networks.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2020)



Sustainability

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Impact Factor 3.3
CiteScore 7.7



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