Special Issue

Systemic Issues to Wind and Solar Energy Deployment

Message from the Guest Editors

Decarbonization of the energy sector and reduction of carbon emissions to limit climate change is at the heart of the Paris Agreement. Achieving the Paris Climate goals would require significant acceleration across a range of sectors and technologies. Wind power, along with solar energy, would lead the way for the transformation of the global electricity sector, as they are the most mature technologies deployed worldwide. The massive deployment to mitigate climate change needs to address systemic issues, which are at the core of this Special Issue. The five biggest challenges that solar and wind power pose to the grid are their variability, their uncertain prediction, the location specificity, their nonsynchronous generation, and their low capacity factor. With regard to these challenges, the following aspects will be given priority in the Special Issue: wind and solar resource assessment, wind and solar resource forecasting, wind and solar infrastructure vulnerability and resilience, integration of intermittent wind and solar energy in the grid, and wind and solar energy economy and policy.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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