



Boosting Wind Power Integration

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Message from the Guest Editor

Wind energy is one of the most sustainable and important sources of energy accounting for 21% (591 GW) of the total of the total renewable electricity. Wind power faces important challenges in terms of promotion, development, operations, and maintenance. The hybridization of wind power with other renewable sources, interactions with the smart grid, microgrid development, and the positive impact on the electrical vehicle introduction are some of the hot topic in the wind power sector.

This Special Issue is looking for contributions on novel developments in battery hybridization, solar and wind integration, micro and smart grid control, balance of distribution grid using wind power, the use of wind power to reduce carbon emissions, machine learning and deep learning used to optimize operations and maintenance, fault-tolerant control on wind turbines and wind farms, and modeling and experimental analysis. Novel industrial applications will provide comprehensive knowledge on the actual benefits of wind power introduction.

