

Special Issue

Advanced Structural Response and Performance of Wind Turbines

Message from the Guest Editors

The increasing attention to distributed power generation for smart cities and green buildings has been accompanied by a large interest in micro and small wind turbines. However, this growing interest is not accompanied by appropriate technological improvement; therefore, they still play a marginal role in energy production. In this context, a stark contrast exists between the potential and reality, which appears even more striking when compared to the large wind-turbine sector. This Special Issue welcomes research addressing the aforementioned topics, considering both the efficiency of the power plant and the assessment of the structural behaviour of vertical or horizontal small-sized wind turbines. Contributions regarding experimental tests, in-field installations, and full-scale monitoring are also welcome, as well as research papers developing calculation procedures of the load modelling and dynamic response that are useful for the design and new certification standards.

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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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