Special Issue

Modeling of Wind Turbines and Wind Farms

Message from the Guest Editors

Nowadays, Wind Power Plant (WPP) and Wind Turbine (WT) modeling are becoming of key importance due to the relevant wind-generation impact on power systems. Hence, wind integration into power systems must be carefully analyzed to forecast the effects on grid stability and reliability. This Special Issue aims to present solutions facing all these challenges, including the development, validation and application of WT and WPP models. Topics of interest include, but are not limited to:

- Detailed WT and WPP models
- Simplified WT and WPP models
- Model validation
- Transient stability studies
- Wind integration studies
- New control strategies
- Ancillary services
- Real time WT and WPP models
- IEC 61400-27 and WECC model assessment
- Grid code requirements

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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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