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Modeling of Wind Turbines and Wind Farms

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Message from the Guest Editors

Dear Colleagues,

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

Prof. Dr. Emilio Gomez-Lazaro

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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