

Grid Integration of Wind Power

Conveners:

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Description:

Successful grid integration is crucial in the large scale development of wind power, both onshore and offshore. A better understanding of the interaction between wind turbines and plants with the power system is needed. The role of wind power as an essential component and an active part of future energy supply requires the development and provision of technical innovations, advanced solutions, tools and concepts for the integration in and provision of system ancillary services to the grid. The mini-symposium aims at highlighting recent research and industry applications of wind power integration. We are welcoming contributions on subjects like:

- Grid integration solutions, including energy management and balancing with other renewable energy sources
- Control and design of turbines, wind plants and control systems for the provision of ancillary services
- Offshore wind transmission solutions, both AC and DC
- Control of wind power plants in offshore DC grids
- Frequency stability in networks with increasing share of inverter based generators.