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New developments in wind energy forecasting

Lange, M., Focken, U.

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Abstract

An overview of new and current developments in wind power forecasting is given where the focus is on practical implementations and experiences concerning the operational systems in Europe. In general, short-term wind power prediction systems use either statistical or physical approaches to determine the anticipated wind power based on numerical weather forecasts. As an example the physical system is described in detail. The typical accuracy of the forecasts for single wind farms as well as the aggregated production is shown. One focus of this paper is the intelligent use of multiple input from numerical models to improve the accuracy of the power forecast. The two main approaches that are applied are ensemble predictions from one weather model and the combination of different numerical weather

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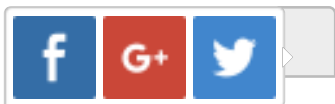
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