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Title: Wind power forecasting and microgrid dispatching

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This paper presents a robust hybrid system that integrates wavelet transform-oriented signal decomposition with ML to improve wind power forecasting and optimize energy dispatch, ...

This paper presents a new multi-objective optimization dispatching method to optimize the output power of distributed generators of a micro-grid considering uncertainty in wind power...

The volatility of distributed photovoltaic (PV) and wind turbine (WT) brings great challenge to the real-time dispatching of microgrid. This work aims ...

Despite the advantages of wind power, its uncertainty and randomness lead to critical security, stability, and economic issues in the power ...

This study proposes an optimized day-ahead economic dispatch framework for wind-integrated microgrids, combining energy storage systems with a hybrid demand response (DR) strategy to ...

Abstract Accurate minute-level wind power forecasting is identified as critical for the stable operation and economic dispatch of microgrids; however, it remains a challenging task constrained ...

In this paper, we develop a novel scenario generation method that accounts for the uncertain effects of (i) climate change on variable renewable energy availability, (ii) extreme heat ...

Abstract: In recent years, a large number of wind power has been applied in the micro-grid (MG). Influenced by randomness characteristics of wind speed, the uncertainty in the power output of ...

Due to lacking data availability in these areas, modeling and forecasting of atmospheric data and wind power generation are long-standing areas of interest, as they can provide synthetic time series for ...



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