Large Microgrid Load Forecasting

Efficient energy management and accurate load forecasting are one of the critical aspects for improving the operation of microgrids. Various approaches for energy prediction and load

In this paper, a load-forecasting algorithm for microgrid based on improved long short-term memory neural network (LSTM) is proposed. Firstly, the criticality analysis of load

Addressing this limitation, this study investigates the simultaneous correlation between source and load power in a microgrid and weather features, conducting research on the

The growing integration of renewable energy sources into grid-connected microgrids has created new challenges in power generation forecasting and energy management.

To address these issues, this article proposes a cooperative forecasting management model for MEMG that considers multiple uncertainties and load response knowledge

The proposed load forecasting model provides an effective solution in terms of accuracy, real-time performance, and privacy protection, which can meet the diverse needs of

Accurate load forecasting is essential for optimizing microgrid and smart grid operations, thereby supporting Energy Management Systems (EMSs). Load forecasting also plays a

The features and accuracy of several load forecasting methods, such as Very Short-Term Load Forecasting (VSTLF), Short-Term Load Forecasting (STLF), Medium-Term Load

As large load forecasting evolves and more information becomes available about the actual performance of large loads connected to the grid, it will be helpful to use this information to validate and improve

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Predicting electrical load is crucial for microgrid energy management. Short-term load forecasting (STLF) helps in optimizing energy management and load balancing within microgrids.

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