

Can CNN accurately represent regional features of power load data?

CNN is therefore able to adequately represent the regional features of power load data. Meanwhile, power load data sequentially records power consumption based on a predetermined time interval and sampling frequency. Therefore, this study further introduces BiLSTM algorithm [24] to extract the features of power load data.

What is Beijing-Tianjin-Jibei power grid?

Specially, the Beijing-Tianjin-Jibei power grid is treated as an intra-provincial market in North China market, that means Beijing, Tianjin, and Jibei are together treated as one province like other provinces. The VPP in Beijing is Jibei VPP. Tianjin has a VPP platform established by State Grid Information & Telecommunication Co., Ltd.

Can VPP and V2G improve grid flexibility and stability in China?

The development of VPPs and V2G interactions in China holds immense potential for leveraging adjustable resources, especially EVs and energy storages with lithium-ion batteries, to enhance grid flexibility and stability. 1. Introduction 1.1. Challenge of flexibility and the new power system

What is State Grid's intelligent vehicle internet platform?

The platform constructed is named State Grid Corporation Intelligent Vehicle Internet platform, which has a regulatory capacity of 2450 MW up to now. One of its V2G station, located in Renji Building, Beijing, became the first project in China to be included in the peak load regulation and ancillary services settlement.

Effective processing of large-scale nonlinear data is achieved in the area of power grid fault diagnosis, resulting in prediction accuracy of 96.22% and prediction time of ...

Founded in 1979, Shenzhen Power Supply Bureau (SPSB) is a wholly-owned subsidiary of China Southern Power Grid (CSG). It provides electricity to most of the city of Shenzhen with a total ...

China Southern Power Grid (CSG) hosted a competition of AI short-term load forecasting with real-world load data in Sept 2019. NARI Technology was invited for the 10 days closed match ...

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1 Although there are many lakes in the territory, the per capita water resources are very low in the world, but the quality of the water sources is relatively good. It is located in central and western Africa and is one of the ...

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