Electricity load characteristics of communication base stations

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Reference (Yu et al., 2016) analyzes the load characteristics and patterns based on real-time power consumption and power demand, approximating the electrical load of 5 G base stations ...

Semantic Scholar extracted view of "Electric load characteristics analysis of 5G base stations in different type of area" by Y. Yang et al.

This paper proposes an electric load demand model of the 5th generation (5G) base station (BS) in a distribution system based on data flow analysis. First, the electric load model of a 5G BS is ...

Considering the spatial-temporal characteristics of electric load for 5G BS, the dispatchable capacity of backup batteries at different time intervals is evaluated based on historical ...

In this article, we propose a novel mechanism to scale 5G core network resources by anticipating traffic load changes through forecasting via ML techniques. The traffic load forecast is...

In this paper, a distributed collaborative optimization approach is proposed for power distribution and communication networks with 5G base stations. Firstly, the model of 5G base stations considering ...

A detailed analysis was conducted under different grid power availabilities and base station load profiles heterogeneous to different geographical locations where telecommunication base ...

In this paper, the load characteristics of 5G base stations are investigated based on data mining methods from multiple dimensions, including spatial distribution, multi-scale temporal distribution, ...

In this paper, hourly electric load profiles of 5G BSs in residential, shopping, and office areas for future 5G application are simulated to compare and investigate their characteristics based on several key ...

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Base stations represent the main contributor to the energy consumption of a mobile cellular network. Since traffic load in mobile networks significantly varies during a working or weekend day, it is ...

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