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Title: Communication base station power optimization

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Therefore, this paper uses the charge and discharge control of energy storage batteries, combined with wind and solar resources and time-of-use electricity prices, to achieve "peak shaving ...

Therefore, in response to the impact of communication load rate on the load of 5G base stations, this paper proposes a base station energy storage auxiliary power grid peak shaving method based on ...

Therefore, this paper proposes a two-stage robust optimization (TSRO) model for 5G base stations, considering the scheduling potential of backup energy storage. At the day-ahead ...

To achieve "carbon peaking" and "carbon neutralization", access to large-scale 5G communication base stations brings new challenges to the optimal operation of new power systems, ...

To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving operation model for 5 G base stations that incorporates communication caching and ...

With the rapid development of 5G base station construction, significant energy storage is installed to ensure stable communication. However, these storage resources often remain idle, ...

In today's 5G era, the energy efficiency (EE) of cellular base stations is crucial for sustainable communication. Recognizing this, Mobile Network Operators are actively prioritizing EE for both ...

In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This work studies the optimization of battery ...

To enhance system efficiency and establish green wireless communication systems, this paper investigates base station sleeping and power allocation strategy based on deep reinforcement ...



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