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Title: Communication base station power optimization application

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**Abstract:** With the maturity and large-scale deployment of 5G technology, the proportion of energy consumption of base stations in the smart grid is increasing, and there is an urgent need to reduce ...

**Abstract** The research and application of energy-saving technology for 5G wireless networks are significant for the emission-reduction work of Communication Operators. The traditional ...

In this article, an algorithm for automatic control of energy sources was developed to improve the uninterrupted power supply of mobile communication base stations. Based on the proposed ...

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 ...

Intelligent technical guidance for smart energy saving of 5G base stations will also be elaborated in this technical report.

**I. INTRODUCTION** bsequent generations of mobile communication networks [1]-[3]. In addition to serving users with ever increasing data rates, novel applicati ns require very low latency connections ...

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

A strategy based on Q-learning in combination with logarithmic cooling (LC) is proposed to optimize the connection of user equipment (UE) with a base station or access point (AP) to address energy ...

This article focuses on the optimized operation of communication base stations, especially the effective utilization of energy storage batteries. Currently, base station energy storage ...



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