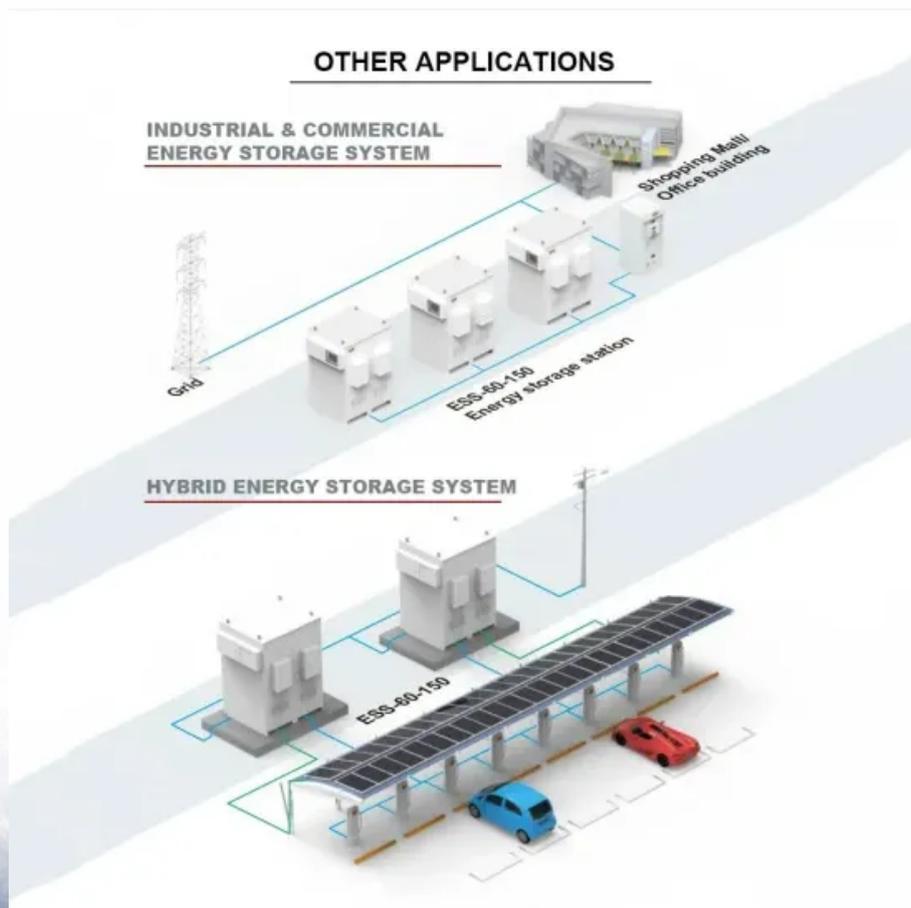


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Energy saving and consumption reduction in communication base station hybrid energy station



Energy saving and consumption reduction in communication base stations

In this paper we formalize the deployment of micro BSs in the coverage area of macro BSs as a mixed integer nonlinear programming problem, and then propose, based on Kuhn-Munkres ...

To reduce the extra power consumption due to frequent sleep mode switching of base stations, a sleep mode switching decision algorithm is proposed. The algorithm reduces ...

Case studies demonstrate that the proposed model effectively integrates the characteristics of electrical components and data flow, enhancing energy efficiency while satisfying user ...

Hybrid beamforming (HBF) and adaptive sectorization are presented as ways to reduce energy consumption and boost network capacity. In order to save energy and increase ...

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We demonstrate that this model achieves good estimation performance, and it is able to capture the benefits of energy saving when dealing with the complexity of multi-carrier base stations ...

This technical report explores how network energy saving technologies that have emerged since the 4G era, such as carrier shutdown, channel shutdown, symbol shutdown etc., can be ...

V. Chamola, B. Sikdar, and B. Krishnamachari, "Delay aware resource management for grid energy savings in green cellular base stations with hybrid power supplies," IEEE Transactions ...

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 ...

Abstract: At present, 5G mobile traffic base stations in energy consumption accounted for 60% ~ 80%, compared with 4G energy consumption increased three times. In the future, high-density ...

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