

# **Heterogeneous communication network for energy storage power stations**





## Overview

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Why are power systems and communication systems increasingly coupled?

Therefore, power systems and communication systems are increasingly coupled. A power system supplies energy, and a communication system meets the demand for information exchange. A BS is the main intermediary between a communication network and a power network.

Do heterogeneous BS channel allocation strategies exist for different users?

Secondly, this study lacks of exploration regarding the heterogeneous BS channel allocation strategies for different users. In practice, users within a communication network often exhibit diverse requirements and characteristics, and their BS channel allocation needs may vary accordingly.

Why does BS N have a linear relationship with power consumption?

Because of the use of orthogonal frequency division multiple access (OFDMA), there is no interference between subcarriers of the same BS. The power consumption of BS n increases linearly with its total transmit power, including all subcarriers. Intuitively, the power load of a BS has a linear relationship with its communication load.



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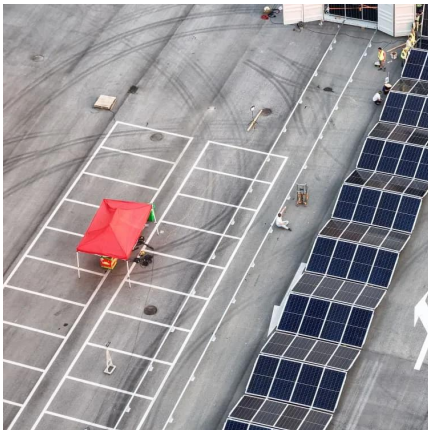
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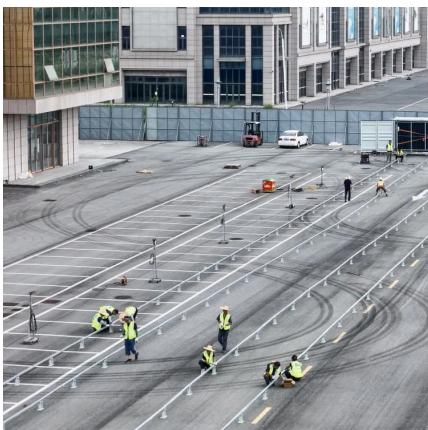


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