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Long-term mobile energy storage container for emergency relief in Chisinau



Overview

Do mobile energy storage units provide power resilience?

Upon the arrival of mobile energy storage units, these resources collectively provide power support to critical loads in the distribution system. This scenario demonstrates superior resilience recovery capability in the initial stages of power resilience compared to Scenario II.

What is the resilience benefit for critical load units?

In the distribution network, the resilience benefit for critical load units is set at 3000 CNY/kWh. In the three microgrids, the resilience benefits for critical loads are 200 CNY/kWh, 300 CNY/kWh, and 500 CNY/kWh, respectively. The dispatching center for the EMES is located at node 5.

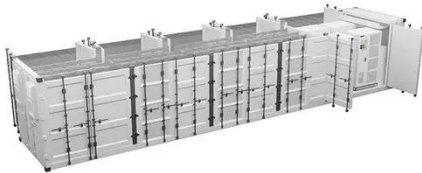
What are the resilience benefits for critical loads in a microgrid?

In the three microgrids, the resilience benefits for critical loads are 200 CNY/kWh, 300 CNY/kWh, and 500 CNY/kWh, respectively. The dispatching center for the EMES is located at node 5. Lithium-ion battery modules are utilized for the EMES, and the techno-economic parameters are presented in Table 1. Fig. 5.

Which action represents the emergency energy storage optimization strategy of agent i ?

The action $a_{i,t}$ represents the emergency energy storage optimization allocation strategy of agent i . Subsequently, the actions of all agents $A_t = \{a_{1,t}, a_{2,t}, \dots, a_{n,t}\}$ are jointly applied to the environment.

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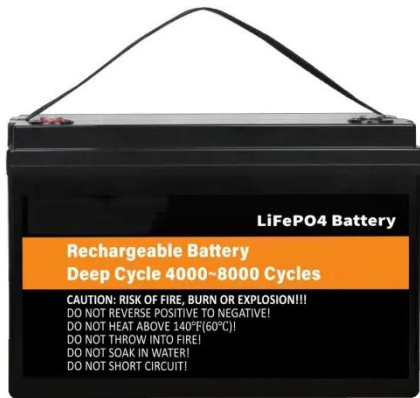
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