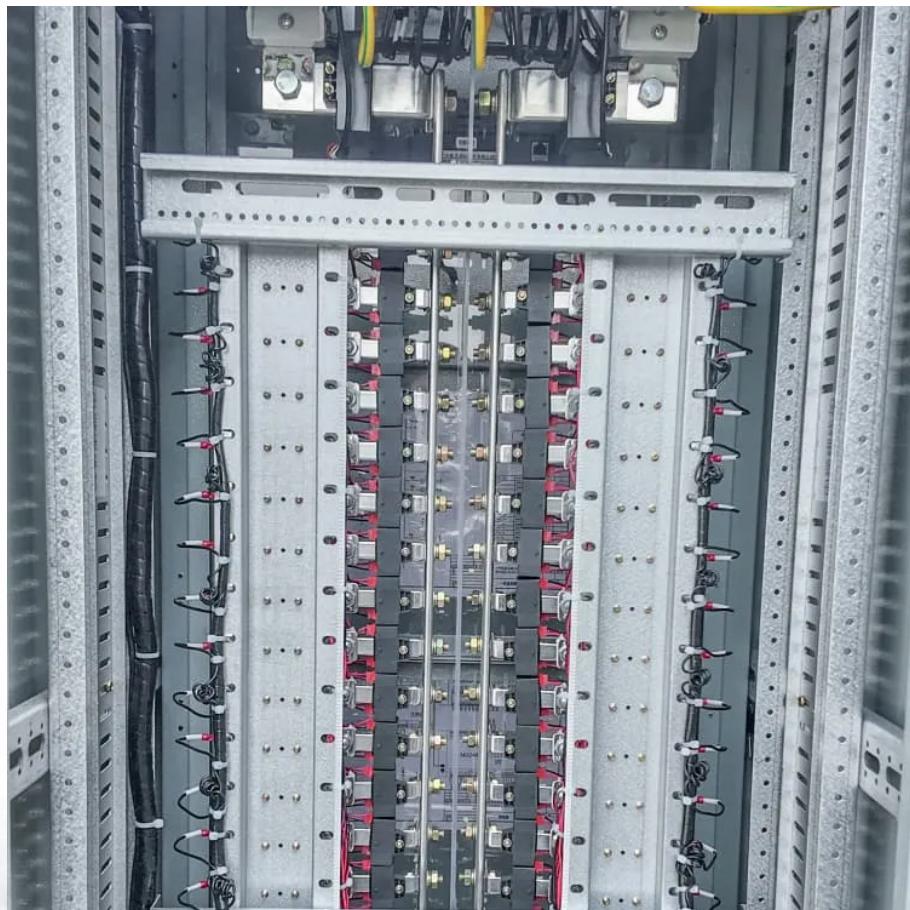




GETON CONTAINERS

Environmental Comparison of 20MWh Mobile Energy Storage Containers in Rural Areas





Overview

••Mobile energy storage technologies are summarized.••.

Do different energy storage methods have different environmental and economic impacts?

However, different energy storage methods have different environmental and economic impacts in renewable energy systems. This paper proposed three different energy storage methods for hybrid energy systems containing different renewable energy including wind, solar, bioenergy and hydropower, meanwhile.

What are the different types of mobile energy storage technologies?

Demand and types of mobile energy storage technologies (A) Global primary energy consumption including traditional biomass, coal, oil, gas, nuclear, hydropower, wind, solar, biofuels, and other renewables in 2021 (data from Our World in Data 2). (B) Monthly duration of average wind and solar energy in the U.K. from 2018 to 2020.

What are the development directions for mobile energy storage technologies?

Development directions in mobile energy storage technologies are envisioned. Carbon neutrality calls for renewable energies, and the efficient use of renewable energies requires energy storage mediums that enable the storage of excess energy and reuse after spatiotemporal reallocation.

Is energy storage economically viable?

Many scholars have also studied the economic and environmental analysis of energy storage. Alqahtani and Balta-Ozkan 24 evaluated PVsystems with battery storage in Neom. The techno-economic analysis showed that the current tariff structure was not economically viable and suggested that tariff of \$0.08/kWh would be feasible.



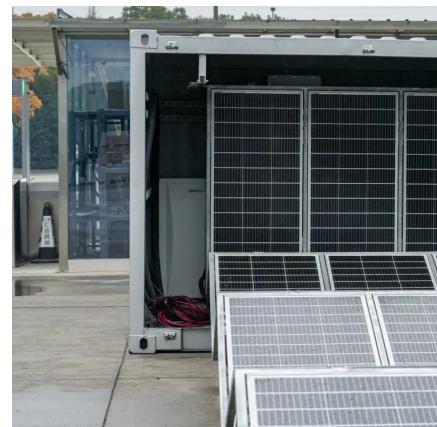
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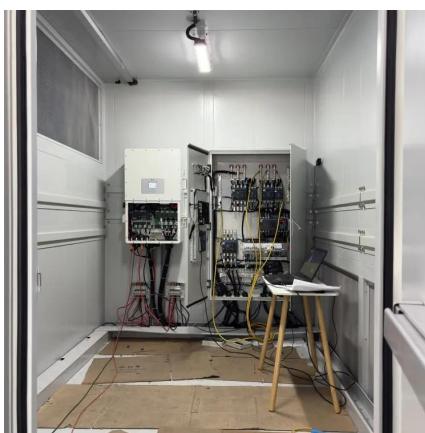
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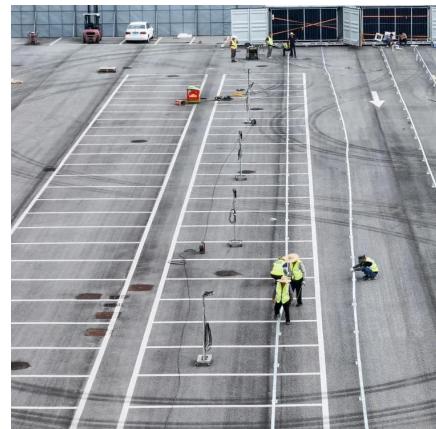
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