



BUHLE POWER

Data center uses Ghanaian energy storage containers for communication





Overview

What is the future of data center energy storage?

The data center energy storage landscape is rapidly evolving, shaped by shifting priorities, emerging technologies, and growing AI demands. Industry professionals cite power availability, cybersecurity and data privacy, sustainability, cooling, and AI as the biggest challenges of the next decade.

What percentage of data centers use modular power solutions?

Modular Power Solutions: Two-thirds (68%) of respondents use modular power solutions and plan to continue, 22% deploy them at all locations, while 14% have no plans for adoption. The data center energy storage landscape is rapidly evolving, shaped by shifting priorities, emerging technologies, and growing AI demands.

How much power does a data center use?

More than a third (36%) of respondents say their organization uses 101-500 MW of total load across all campuses. Three in ten (30%) say their typical deployment UPS size is 250 to 499 kW, followed by 500 to 999 kW (28%). How many megawatts of total load do your data centers use across all campuses?

What is your typical deployment UPS size?

How is AI reshaping data center operations?

AI is fundamentally reshaping data center operations, driving higher power demands, evolving infrastructure needs, and a shift away from traditional power management strategies. Respondents identified two key impacts: increasing energy efficiency requirements (55%) and the need for higher power density with smaller footprints (54%).



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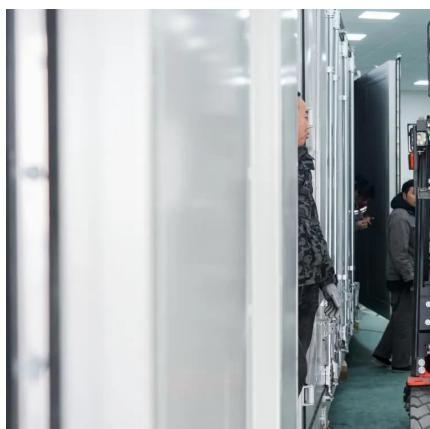
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