

Uninterrupted power supply for base station rooms in 2025





Overview

What will data centers look like in 2025?

Through 2025, few core data centers are likely to adopt novel electrical approaches, such as medium-voltage UPS, despite the advantages. Distributed uninterruptible power systems with batteries will also likely remain niche due to technical and commercial risk, either perceived or real.

Will data center capacity drop by 2025?

The average IT capacity at core data centers run by colocation providers in our study is expected to drop by 2025, but the number of sites will grow. Many expect to be operating more, smaller facilities, including edge sites under 150 kW.

How will power infrastructure requirements change in data centers?

Power infrastructure requirements in data centers will be shaped by several factors in the coming years. For many, power architectures will be driven by pressure to lower capex without additional risk, while for others, regulatory concerns or changing customer requirements will play an increasingly prominent role.

Will centralized UPS systems continue to dominate data centers?

Some clear trends emerge, notably that centralized UPS systems will likely continue to dominate in data centers with at least 1 megawatt of IT capacity, especially in those owned by enterprises and colocation providers.



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