

Data Center Energy Storage Systems Market by Energy Storage Technology (BESS, FESS, Supercapacitor), Data Center Type (Enterprise, Cloud & Hyperscale, Colocation), Application, Enterprise Vertical, and Region - Global Forecast to 2032

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Abstracts

The global data center energy storage systems market is projected to grow from USD 5.17 billion in 2026 to USD 10.48 billion by 2032, at a CAGR of 12.5%. Data center energy storage systems are solutions that store electricity for use when required, helping data centers maintain a dependable power supply and manage the availability of electricity according to operational requirements. They are increasingly becoming a part of the broader power infrastructure of data centers, supporting requirements ranging from extended backup power (UPS companion) and power quality conditioning to peak shaving & load management, renewable integration & grid services, and black start. The need for these systems is growing as data centers become more critical to business operations and increasingly handle workloads that require continuous availability. The market is being supported by the rapid expansion of data center infrastructure to accommodate cloud services, AI, digital platforms, and increasing data volumes. This expansion is not only increasing the number of facilities being built but is also raising the power requirements of individual data centers, particularly as facilities become larger and accommodate more intensive computing workloads. At the same time, limited grid capacity in established data center locations is encouraging operators to strengthen their on-site power infrastructure and improve their ability to manage available electricity. The increasing integration of renewable energy into data center power strategies is also creating demand for storage systems that can help operators better utilize available renewable power. Furthermore, the growing importance of continuous digital services is encouraging data center operators to place greater emphasis on power resilience, creating additional demand for energy storage systems

as part of their overall power infrastructure.

“By data center type, the enterprise data centers segment is expected to account for the second-largest share during the forecast period.”

The enterprise data center segment, by data center type, accounts for the second-largest share of the data center energy storage systems market, supported by the continued need for organizations to maintain reliable and uninterrupted digital infrastructure. Enterprise data centers are operated by businesses to support their own applications, data storage, IT infrastructure, and business-critical operations. As organizations increasingly depend on digital systems and data-driven processes, the importance of maintaining reliable power availability for these facilities continues to increase. The growing adoption of cloud-connected applications, digital platforms, and data-intensive business operations is also contributing to higher infrastructure and power requirements. Energy storage systems support enterprise data centers by providing backup power, improving power reliability, managing electricity demand, and providing greater flexibility in energy use. The continued reliance of businesses on their own critical digital infrastructure and the growing need for reliable power are therefore supporting sustained ESS adoption, enabling enterprise data centers to maintain their position as the second-largest data center type segment.

“By application, the peak shaving and load management segment will account for the second-largest market share during the forecast period.”

The peak shaving & load management segment, by application, accounts for the second-largest share of the data center energy storage systems market, driven by the increasing electricity requirements of data centers and the need to manage growing power demand efficiently. As data centers expand and support increasingly intensive computing workloads, operators are seeking ways to better manage their electricity consumption and available power capacity. Energy storage systems can store energy for use during periods of higher demand, helping data center operators manage peak loads and make more effective use of available electricity. The application is also gaining relevance as data center operators seek greater flexibility in managing their power requirements alongside other energy needs. The growing scale and power intensity of data center facilities and the increasing focus on efficient electricity management are, therefore, supporting continued adoption of ESS for peak shaving

and load management, making it one of the leading applications in the market.

“Asia Pacific is projected to account for the second-largest market share during the forecast period.”

The Asia Pacific segment by region accounts for the second-largest share of the data center energy storage systems market, supported by the region's large and expanding digital infrastructure base. Increasing digitalization, cloud computing, AI adoption, and demand for online services are driving the development of data centers across established and emerging markets in the region. As data center capacity expands, electricity requirements are increasing and creating a greater need for reliable power infrastructure. The growing scale of data center operations is encouraging operators to adopt energy storage solutions to support power reliability, manage electricity demand, and provide greater flexibility in energy use. Continued investment in digital infrastructure and increasing computing requirements are expected to sustain demand for data center energy storage systems across the region. The combination of a substantial existing data center base and continued expansion of digital and computing infrastructure is therefore supporting Asia Pacific's position as the second-largest regional market for data center energy storage systems.

Profile break-up of primary participants for the report:

By Company Type: Tier 1 – 65%, Tier 2 – 20%, and Tier 3 – 15%

By Designation: Directors – 25%, C-level Executives – 30%, and Others – 45%

By Region: North America – 30%, Asia Pacific – 40%, Europe – 20%, and Rest of the World – 10%

Note: Other designations include sales managers, engineers, and regional managers. Tier 1= revenue >USD 5 billion, Tier 2 = revenue between USD 1 and USD 5 billion, and Tier 3 company = revenue <USD 1 billion.

Tesla (US), Contemporary Amperex Technology Co., Limited (China), LG Energy Solution (South Korea), Samsung SDI Co., Ltd. (South Korea), and Panasonic Holdings Corporation (Japan) are some major players operating in the data center energy storage systems market.

Research Coverage

The report segments the data center energy storage systems market based on energy storage technology, data center type, application, component and management system, power capacity, enterprise vertical/end user, and region. It provides detailed information on the major factors influencing the market's growth, including drivers, restraints, opportunities, and challenges. It strategically profiles data center energy storage systems manufacturers, comprehensively analyzing their market shares and core competencies.

Reasons to Buy the Report

The report is expected to help market leaders/new entrants by providing the closest approximations of revenue figures for the data center energy storage systems market and its segments. This report is also expected to help stakeholders gain a better understanding of the market's competitive landscape, develop insights to improve their businesses' positions, and develop suitable go-to-market strategies. It also enables stakeholders to understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights into the following pointers

Analysis of critical Drivers (Accelerating Investments in AI-driven and Hyperscale Data Center Infrastructure; Broadening ESS Adoption Across Backup, Energy Optimization, and Grid Support Applications; and Growing Sustainability and Energy-efficiency Requirements for Data Centers), Restraints (High Upfront Capital Requirements for Data Center ESS Deployment), Opportunities (Growing Retrofit Demand for Power Density and Resilience; Emergence of Hybrid ESS Architectures for Diverse Data Center Needs; and AI-enabled Energy Management and Predictive Monitoring for ESS), and Challenges (Complex ESS Integration with Existing Data Center Infrastructure; and Safety and Thermal Management across ESS Technologies)

Product Development/Innovation: Detailed insights on upcoming technologies and research & development activities in the data center energy storage systems market

Market Development: Comprehensive information about lucrative markets—the report analyzes the data center energy storage systems market across varied

regions.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players such as Tesla (US), Contemporary Amperex Technology Co., Limited (China), LG Energy Solution (South Korea), Samsung SDI Co., Ltd. (South Korea), and Panasonic Holdings Corporation (Japan) in the data center energy storage systems market

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