

Data Center Energy Storage Market Size, Share & Trends Analysis Report By Data Center Type (Tier 1, Tier 2, Tier 3, Tier 4), By Region (North America, Europe, APAC, Latin America, MEA), And Segment Forecasts, 2020 - 2027

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Abstracts

Data Center Energy Storage Market Growth & Trends

The global data center energy storage market size is expected to reach USD 1.8 billion by 2027, expanding at a CAGR of 6.3% from 2020 to 2027, according to a study conducted by Grand View Research, Inc. The data center industry has been growing owing to the rise in the adoption of cloud computing and the high penetration of smart phones. The workload on the data centers has increased exponentially which has contributed to varying load demands, in turn, increasing the power consumption. The increased power consumption has created a necessity for deployment of Energy Storage Devices (ESDs), which can provide swift demand response to the changing loads and provide efficient power management.

The energy storage in the data center has been used as a backup method to handle power outages until diesel generators are brought online. This typically takes a few seconds or a couple of minutes. ESDs are capable of discharging energy whenever there is a requirement. The devices equipped with high energy density can provide power backup for longer durations as compared to super capacitors. UPS acts as a backup device that can sustain the load of the entire system for a short interval of time, acting as a backup solution during power cuts. As a result, several data center UPS manufacturers are focusing on improving the efficiency for maintaining the ideal power usage by using efficient ESDs. This, in turn, is anticipated to boost market growth during the forecast period.

Energy storage in data centers is usually made up of lead-acid batteries and is used as centralized uninterruptible power supply. Potential ESDs include li-ion batteries, flywheels, supercapacitors, and compressed air energy storage. Li-ion and lead-acid batteries are mostly implemented as ESDs owing to their high energy density and reliability. Particularly, Li-ion batteries have considerably high efficiency, high energy density, long cycle life, and environmental friendliness, and hence are one of the most promising ESDs.

Based on geography, North America was the leading revenue contributor in 2019 and is poised to witness remarkable market growth over the forecast period. The region is characterized by the presence of several data center clusters and provides plenty of colocation opportunities. The regional growth is mainly backed by U.S., as the country represents about 50.0% of the data centers worldwide. Also, the growing usage of cloud computing applications and services coupled with the rising popularity of the Internet of Things (IoT) further drives the market in the region.

Data Center Energy Storage Market Report Highlights

The Tier 4 segment is expected to be the fastest growing type segment owing to increase in the construction of hyper scale data centers

Asia Pacific is anticipated to register a CAGR of more than 8.0% during the forecast period owing to construction and modernization of IT facilities

The market is characterized by intense competition among the established players that include Schneider Electric, Eaton, General Electric, and ABB Ltd; among others. The key market players are introducing technologically advanced products to cater the market demands.

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