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# Global Data Center Energy Storage System Market Growth 2026-2032

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## Abstracts

The global Data Center Energy Storage System market size is predicted to grow from US$ 4282 million in 2025 to US$ 9826 million in 2032; it is expected to grow at a CAGR of 12.8% from 2026 to 2032.

A Data Center Energy Storage System is an integrated power-storage solution designed to provide extended, stable, and controllable electrical energy for data center operations. Unlike traditional UPS systems that supply only short-term backup (usually <15 minutes), energy storage systems offer longer-duration power support—from tens of minutes to several hours—using technologies such as lithium-ion batteries, LFP battery packs, flow batteries, etc. These systems enhance power reliability, smooth load fluctuations, perform peak shaving and demand response, integrate with renewable energy sources, and in some configurations can supplement or replace diesel generators. They form a critical part of modern data center energy architecture to improve efficiency, reduce carbon emissions, and support grid-interactive operations.

Global production capacity is approximately 32 GWh.

In 2024, global sales reached approximately 26 GWh, with an average price of around US$ 152 per kWh, gross margin around 28%.

Data Center Energy Storage Systems are becoming a central component of modern data center power architecture, enabling operators to achieve higher reliability, lower emissions, and improved energy economics. As AI-driven workloads grow and power demands intensify, data centers will increasingly rely on multi-hour energy storage to replace or reduce diesel generators, support renewable energy adoption, and optimize grid interaction. Future development will focus on safer chemistries, improved lifecycle

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economics, hydrogen/hybrid architectures, and intelligent EMS platforms. Vendors offering scalable, long-duration, and digitally integrated storage systems will capture strong opportunities in the global data center and cloud infrastructure market.

Market Trend

The Data Center Energy Storage System market is trending toward longer-duration storage, higher energy density, and deeper integration with smart-grid operation. Hyperscale and colocation data centers are adopting energy storage to reduce dependency on diesel generators, lower carbon emissions, and stabilize power for increasingly power-dense IT loads. Lithium-ion remains the dominant technology, but flow batteries and fuel-cell hybrids are gaining traction for multi-hour applications. Adoption of on-site renewable energy—solar, wind, microgrids—is accelerating demand for storage-as-infrastructure. Software-defined energy orchestration, AI-based load forecasting, and grid-interactive energy storage systems are becoming critical trends in next-generation data centers.

Market Drive

Key drivers include rapid global data center expansion, rising electricity consumption, and the need for higher power reliability amid grid instability. Operators seek to reduce operational costs through peak shaving and energy arbitrage while meeting sustainability targets and carbon-reduction mandates. Growing IT loads from AI, cloud computing, and edge infrastructure require more robust power backup than traditional 10–15 minute UPS systems. Governments worldwide are promoting clean energy adoption, incentivizing energy storage deployment. Many regions are also tightening regulations on diesel generators, pushing data centers toward battery and hybrid energy-storage alternatives for long-duration backup and grid support.

## Upstream & Downstream Analysis

Upstream includes battery manufacturers (lithium-ion, LFP, flow batteries), power electronics suppliers (PCS, inverters, converters), BMS vendors, hydrogen/fuel-cell providers, renewable-energy equipment suppliers, and software developers for EMS and microgrid orchestration. Advances in battery chemistry, safety, cycle life, and thermal management heavily influence system performance. Downstream includes hyperscale cloud operators, colocation facilities, enterprise data centers, edge data centers, and telecom infrastructure. These users rely on energy storage for extended backup power, peak shaving, and renewable integration. Utility companies and grid

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operators also benefit as data center storage can participate in demand response and grid stabilization.

## Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Data Center Energy Storage System Industry Forecast” looks at past sales and reviews total world Data Center Energy Storage System sales in 2025, providing a comprehensive analysis by region and market sector of projected Data Center Energy Storage System sales for 2026 through 2032. With Data Center Energy Storage System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Data Center Energy Storage System industry.

This Insight Report provides a comprehensive analysis of the global Data Center Energy Storage System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Data Center Energy Storage System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Data Center Energy Storage System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center Energy Storage System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Data Center Energy Storage System.

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center Energy Storage System market by product type, application, key manufacturers and key regions and countries.

## Market Segmentation

### Segmentation by Type:

0.25-4h

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Above 4h

## Segmentation by Location:

Grid-side ESS

Facility-side ESS

## Segmentation by Technology:

Lithium Batteries

Lead-acid Batteries

Others

## Segmentation by Application:

Enterprise-level

Hyperscale

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

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- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

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The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

CATL

BYD

SAMSUNG SDI

LG

CALB

Fluence

Great Power

EVE Energy

PANASONIC

SAFT GROUP

Pylontech

Hitachi

Kokam

Toshiba

Gotion

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center Energy Storage System

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market?

What factors are driving Data Center Energy Storage System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Data Center Energy Storage System market opportunities vary by end market size?

How does Data Center Energy Storage System break out by Type, by Application?

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