

Global Data Center Energy Transition Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/G4EA16892EE1EN.html>

Date: July 2026

Pages: 171

Price: US\$ 3,660.00 (Single User License)

ID: G4EA16892EE1EN

Abstracts

The global Data Center Energy Transition market size is predicted to grow from US\$ 1227 million in 2025 to US\$ 1979 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

Data Center Energy Transition refers to the data center industry's shift from reliance on fossil fuel power and high-energy-consuming operation models to a low-carbon or zero-carbon energy system centered on renewable energy, energy-efficient technologies, and intelligent management. Its core components include: achieving direct green electricity supply through green electricity procurement agreements or on-site solar and wind power; deploying clean backup power sources such as lithium-ion battery storage and hydrogen fuel cells to replace diesel generators; adopting efficient heat dissipation technologies such as liquid cooling and indirect evaporative cooling to reduce cooling energy consumption; and utilizing artificial intelligence to optimize load scheduling and energy efficiency, and recovering server waste heat for heating. This transformation aims to reduce carbon emissions and operating energy costs throughout the data center's lifecycle and is a key path for digital infrastructure to achieve carbon neutrality, address power capacity constraints, and enhance energy independence.

Global data center energy transition exhibits significant regional differences. Driven by the dual control of energy consumption in the east and the 'East-to-West Computing' policy, China is accelerating the migration of large data centers to clean energy-rich western regions, leading to the rapid adoption of liquid cooling and indirect evaporative cooling technologies. However, grid coordination and inter-provincial green electricity trading mechanisms remain underdeveloped. Europe, pressured by carbon border adjustment mechanisms and the energy crisis, is leading in waste heat recovery and hydrogen fuel cell pilot projects; however, the high cost of green electricity and approval

processes hinder its widespread adoption. In the US, hyperscale cloud service providers, leveraging tax credits under the Inflation Reduction Act, lead in 24/7 carbon-free energy and energy storage deployments, but the transformation of older data centers is lagging due to investment return concerns. Future trends include: AI computing centers driving the explosion of high-density cooling solutions, exploration of small modular reactors as a base station, and the transition of virtual power plant business models from pilot projects to large-scale deployments. Key obstacles include: excessively long-term green electricity procurement agreements, poor compatibility of liquid cooling retrofits with existing data centers, risks in the critical mineral supply chain, and the lack of unified global carbon pricing and information disclosure standards. In terms of dynamics, tech giants and power companies are deepening their cooperation to jointly build campus-level microgrids and long-term energy storage systems to address the dual challenges of power supply capacity constraints and carbon reduction.

LPI (LP Information)' newest research report, the "Data Center Energy Transition Industry Forecast" looks at past sales and reviews total world Data Center Energy Transition sales in 2025, providing a comprehensive analysis by region and market sector of projected Data Center Energy Transition sales for 2026 through 2032. With Data Center Energy Transition 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 Transition industry.

This Insight Report provides a comprehensive analysis of the global Data Center Energy Transition landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Data Center Energy Transition 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 Transition market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center Energy Transition 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 Transition.

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

Segmentation by Type:

Green Electricity Direct Supply Mode

Microgrid Mode

Virtual Power Plant Mode

Others

Segmentation by Energy Load:

50 MW

Segmentation by Energy Storage Mode:

Lithium Iron Phosphate Battery Energy Storage System (BESS)

Hydrogen Fuel Cell

Flywheel Energy Storage

Others

Segmentation by Application:

Edge Data Center

Enterprise Data Center

Cloud Data Center

Hyperscale Data Center

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

Hitachi Energy

Noon Energy

Intersect

AES

Bloom Energy

NextEra Energy Resources

Eaton

Schneider Electric

Constellation Energy

Exowatt

Invenergy

GE Vernova

Cleartrace

ZutaCore

nLighten

ENGIE

Siemens Energy

Delta Electronics

HUAWEI

Tencent

Alibaba

Equinix

Hoku Infrastructure

NTT Data

ENEOS Renewable Energy Corporation

Iron Mountain

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