

Global Data Center Energy Transition Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Data Center Energy Transition market size was valued at US\$ 1290 million in 2025 and is forecast to a readjusted size of US\$ 2033 million by 2032 with a CAGR of 6.7% during review period.

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.

This report is a detailed and comprehensive analysis for global Data Center Energy Transition market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Data Center Energy Transition market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Data Center Energy Transition market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Data Center Energy Transition market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Data Center Energy Transition market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Data Center Energy Transition

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Data Center Energy Transition market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hitachi Energy, Noon Energy, Intersect, AES, Bloom Energy, NextEra Energy Resources, Eaton, Schneider Electric, Constellation Energy, Exowatt, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Data Center Energy Transition market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Green Electricity Direct Supply Mode

Microgrid Mode

Virtual Power Plant Mode

Others

Market segment by Energy Load

50 MW

Market segment by Energy Storage Mode

Lithium Iron Phosphate Battery Energy Storage System (BESS)

Hydrogen Fuel Cell

Flywheel Energy Storage

Others

Market segment by Application

Edge Data Center

Enterprise Data Center

Cloud Data Center

Hyperscale Data Center

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Data Center Energy Transition product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Data Center Energy Transition, with revenue, gross margin, and global market share of Data Center Energy Transition from 2021 to 2026.

Chapter 3, the Data Center Energy Transition competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Data Center Energy Transition market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Data Center Energy Transition.

Chapter 13, to describe Data Center Energy Transition research findings and conclusion.

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