

# Global Data Center Energy Transition Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Data Center Energy Transition market size is expected to reach \$ 2033 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Data Center Energy Transition demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Energy Transition, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Data Center Energy Transition that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Energy Transition total market, 2021-2032, (USD Million)

Global Data Center Energy Transition total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Data Center Energy Transition total market, key domestic companies, and share, (USD Million)

Global Data Center Energy Transition revenue by player, revenue and market share 2021-2026, (USD Million)

Global Data Center Energy Transition total market by Type, CAGR, 2021-2032, (USD Million)

Global Data Center Energy Transition total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Data Center Energy Transition market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Data Center Energy Transition Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Energy Transition Market, Segmentation by Type:

Green Electricity Direct Supply Mode

Microgrid Mode

Virtual Power Plant Mode

Others

Global Data Center Energy Transition Market, Segmentation by Energy Load:

50 MW

Global Data Center Energy Transition Market, Segmentation by Energy Storage Mode:

Lithium Iron Phosphate Battery Energy Storage System (BESS)

Hydrogen Fuel Cell

Flywheel Energy Storage

Others

Global Data Center Energy Transition Market, Segmentation by Application:

Edge Data Center

Enterprise Data Center

Cloud Data Center

Hyperscale Data Center

Companies Profiled:

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

#### Key Questions Answered

1. How big is the global Data Center Energy Transition market?
2. What is the demand of the global Data Center Energy Transition market?
3. What is the year over year growth of the global Data Center Energy Transition market?
4. What is the total value of the global Data Center Energy Transition market?
5. Who are the Major Players in the global Data Center Energy Transition market?
6. What are the growth factors driving the market demand?

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