

Data Center Construction Market Outlook 2025-2034: Market Share, and Growth Analysis By Data Center Type (Small-Scale Data Centers, Medium-Scale Data Centers, Large-Scale Data Centers), By Infrastructure (Electrical Infrastructure, Networking Infrastructure, Other Infrastructures), By Power Distribution And Cooling Infrastructure, By End-Use

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Abstracts

The Data Center Construction Market is valued at USD 250.7 billion in 2025 and is projected to grow at a CAGR of 8.4% to reach USD 516.8 billion by 2034. The data center construction market has become a critical component of the global IT landscape, driven by the exponential growth of digital services, cloud computing, and data-intensive applications. This market encompasses the design, engineering, and physical construction of data centers, ranging from hyperscale facilities to smaller edge sites. With increasing demand for reliable, scalable, and energy-efficient infrastructure, companies are investing heavily in new data center projects, renovations of existing facilities, and the integration of advanced technologies to meet the evolving needs of digital transformation. The data center construction market witnessed significant advancements, particularly in energy-efficient building designs, modular construction approaches, and green building certifications. Many projects focused on utilizing renewable energy sources, advanced cooling techniques, and intelligent power management systems to improve sustainability and reduce operational costs. The growing adoption of prefabricated data center modules and containerized solutions allowed for faster deployment times, while enhanced structural designs improved resilience against natural disasters. These developments helped data center operators align with stricter environmental regulations and meet the increasing demand for low-latency, high-performance infrastructure. Looking ahead, the data center construction

market is poised for continued growth as global data traffic volumes soar and enterprises expand their digital capabilities. Emerging trends such as edge computing and 5G infrastructure are expected to drive the construction of smaller, decentralized facilities closer to end users. Additionally, the adoption of AI-driven construction management tools and building information modeling (BIM) will further streamline project planning and execution. As the industry continues to innovate, the data center construction market will remain a crucial enabler of the digital economy, supporting the rapid expansion of connected services and applications worldwide.

Key Insights Data Center Construction Market

- Increasing adoption of modular and prefabricated data center designs for faster deployment.
- Growing emphasis on sustainability, including renewable energy integration and advanced cooling technologies.
- Development of smaller edge data centers to support low-latency applications and 5G networks.
- Increased use of AI-driven construction management tools to optimize project efficiency.
- Expansion of green building certifications and standards in data center construction projects.
- Rising demand for cloud computing and data-intensive applications requiring scalable infrastructure.
- Growing need for resilient, high-performance data centers to support critical operations.
- Expansion of global internet penetration and increasing digital service adoption.
- Ongoing efforts to modernize legacy facilities and build new ones to meet regulatory requirements.
- High capital investment and lengthy construction timelines for large-scale projects.

Managing energy consumption and meeting stringent environmental regulations.

Ensuring infrastructure resilience against physical and cyber threats.

Data Center Construction Market Segmentation

By Data Center Type

Small-Scale Data Centers

Medium-Scale Data Centers

Large-Scale Data Centers

By Infrastructure

Electrical Infrastructure

Networking Infrastructure

Other Infrastructures

By Power Distribution And Cooling Infrastructure

Power Distribution

Cooling

By End-Use

Banking

Financial Services and Insurance (BFSI)

Energy

Government

Healthcare

Manufacturing

IT And Telecom

Others End-Uses

Key Companies Analysed

Google LLC

Amazon Web Services Inc.

Microsoft Azure

The International Business Machines Corporation

Schneider Electric SE

Meta Platforms Inc.

NTT Ltd.

Turner Construction Co

STO Building Group Inc.

Equinix Inc.

DPR Construction Inc.

Iron Mountain Inc.

Digital Realty Trust Inc.

Stantec Inc.

SAS Institute Inc.

Zayo Group Holdings Inc.

Gensler

CyrusOne LLC

Hensel Phelps Construction Co.

Cyxtera Technologies LLC

Fortis Construction Inc.

QTS Realty Trust Inc.

HITT Contracting Inc.

TierPoint LLC

Sabey Data Center Properties LLC

Flexential Corp.

Holder Construction Group LLC

Cologix Inc.

Alfa Tech Consulting Engineers Inc.

ipSpace.net AG.

Data Center Construction Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Data Center Construction Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Data Center Construction market data and outlook to 2034

United States

Canada

Mexico

Europe — Data Center Construction market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Data Center Construction market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Data Center Construction market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Data Center Construction market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Data Center Construction value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Data Center Construction industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Data Center Construction Market Report

Global Data Center Construction market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Data Center Construction trade, costs, and supply chains

Data Center Construction market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Data Center Construction market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Data Center Construction market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Data Center Construction supply chain analysis

Data Center Construction trade analysis, Data Center Construction market price analysis, and Data Center Construction supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Data Center Construction market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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