

**North America Data Center Construction Market By Type of Data Center (Hyperscale Data Centers, Colocation Data Centers, Enterprise Data Centers, Edge Data Centers), By Construction Type (New Construction, Expansion, Retrofit/Upgrade), By Power Capacity (Small Data Centers, Medium Data Centers, Large Data Centers), By Service Type (Design & Consulting, Construction & Installation, Project Management), By End-User Industry (IT & Telecommunications, BFSI, Healthcare, Retail & E-Commerce, Others), By Country, Competition, Forecast and Opportunities, 2020-2030F**

Market Report | 2025-03-24 | 120 pages | TechSci Research

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**Report description:**

The North America Data Center Construction Market was valued at USD 76.56 Billion in 2024 and is expected to reach USD 110.76 Billion by 2030 with a CAGR of 6.19% during the forecast period. The North America data center construction market is experiencing robust growth driven by a surge in demand for digital infrastructure and advanced technological capabilities. As businesses and organizations increasingly rely on cloud computing, big data, artificial intelligence (AI), and Internet of Things (IoT) technologies, the need for reliable, scalable, and high-performance data centers has escalated. This demand is particularly pronounced in the United States and Canada, which are key hubs for data center development due to their advanced technological landscapes, stable political environments, and robust economic conditions. The USD 310 billion valuation of North America's public cloud market in 2023 accelerates the demand for robust data center infrastructure. As enterprises increasingly shift to cloud services, there is a heightened need for new data centers to support cloud storage, processing, and management. This surge in demand for cloud services directly drives growth in the North America Data Center Construction Market.

Key Market Drivers

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## Growth in Cloud Computing and Digital Services

The exponential growth in cloud computing and digital services is a primary driver of the North America data center construction market. As enterprises and consumers increasingly rely on cloud-based solutions for data storage, processing, and application hosting, the demand for data center infrastructure has surged. Major technology companies, including Amazon Web Services (AWS), Microsoft Azure, and Google Cloud, are expanding their data center footprints to accommodate the growing volume of data and ensure high availability and performance. This trend is fueled by the proliferation of data-driven applications, the need for scalable storage solutions, and the shift towards digital transformation across various industries. As businesses adopt cloud strategies to enhance operational efficiency and flexibility, the need for robust and scalable data center facilities continues to drive market growth. The surge in data generation and the increasing shift of 60% of enterprise workloads to cloud platforms are driving demand for more data center capacity. This transition amplifies the need for advanced data center infrastructure, including construction of new facilities. As businesses scale their cloud operations, the North America Data Center Construction Market is poised for significant growth to support expanding storage and processing requirements.

## Key Market Challenges

### Rising Energy Costs

One of the significant challenges facing the North American data center construction market is the escalating cost of energy. Data centers are energy-intensive facilities, with power requirements for servers, cooling systems, and other infrastructure components. As the demand for data processing and storage grows, so does the energy consumption, leading to higher operational costs. In regions where energy prices are volatile or increasing, this can significantly impact the overall cost of running data centers. To mitigate these costs, data center operators are investing in energy-efficient technologies and renewable energy sources. However, balancing energy efficiency with operational demands remains a complex and costly challenge.

## Key Market Trends

### Rise of Hyperscale Data Centers

The North America data center construction market is increasingly dominated by hyperscale data centers. These facilities, characterized by their massive scale and high-capacity requirements, are primarily driven by the burgeoning demand for cloud computing, big data analytics, and artificial intelligence. Major technology companies, such as Amazon Web Services, Microsoft Azure, and Google Cloud, are leading this trend by building expansive data centers to support their growing customer bases. Hyperscale data centers offer the advantage of high efficiency, scalability, and cost-effectiveness, enabling operators to handle vast amounts of data and provide robust services. The trend towards hyperscale facilities is also influencing market dynamics by driving innovations in power and cooling systems, modular design, and energy efficiency, as these large-scale operations require advanced infrastructure solutions to ensure optimal performance and reliability.

## Key Market Players

- [ ] Amazon Web Services, Inc.
- [ ] Microsoft Corporation
- [ ] Google LLC
- [ ] Equinix, Inc.
- [ ] Digital Realty Trust Inc.
- [ ] NTT DATA, Inc.
- [ ] Vertiv Group Corp.
- [ ] CyrusOne LLO
- [ ] Iron Mountain, Inc.
- [ ] CBRE, Inc.
- [ ] Turner Construction Company
- [ ] Skanska USA Inc.

## Report Scope:

In this report, the North America Data Center Construction Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- [ ] North America Data Center Construction Market, By Type of Data Center:

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- o Hyperscale Data Centers
- o Colocation Data Centers
- o Enterprise Data Centers
- o Edge Data Centers
- North America Data Center Construction Market, By Construction Type:
  - o New Construction
  - o Expansion
  - o Retrofit/Upgrade
- North America Data Center Construction Market, By Power Capacity:
  - o Small Data Centers
  - o Medium Data Centers
  - o Large Data Centers
- North America Data Center Construction Market, By Service Type:
  - o Design & Consulting
  - o Construction & Installation
  - o Project Management
- North America Data Center Construction Market, By End-User Industry:
  - o IT & Telecommunications
  - o BFSI
  - o Healthcare
  - o Retail & E-Commerce
  - o Others
- North America Data Center Construction Market, By Country:
  - o United States
  - o Canada
  - o Mexico

#### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North America Data Center Construction Market.

Available Customizations:

North America Data Center Construction Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

#### **Table of Contents:**

1. Service Overview
  - 1.1. Market Definition
  - 1.2. Scope of the Market
    - 1.2.1. Markets Covered
    - 1.2.2. Years Considered for Study
    - 1.2.3. Key Market Segmentations
2. Research Methodology
  - 2.1. Baseline Methodology
  - 2.2. Key Industry Partners
  - 2.3. Major Association and Secondary Sources
  - 2.4. Forecasting Methodology
  - 2.5. Data Triangulation & Validation

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- 2.6. Assumptions and Limitations
- 3. Executive Summary
- 4. Voice of Customer
- 5. North America Data Center Construction Market Outlook
  - 5.1. Market Size & Forecast
    - 5.1.1. By Value
  - 5.2. Market Share & Forecast
    - 5.2.1. By Type of Data Center (Hyperscale Data Centers, Colocation Data Centers, Enterprise Data Centers, Edge Data Centers)
    - 5.2.2. By Construction Type (New Construction, Expansion, Retrofit/Upgrade)
    - 5.2.3. By Power Capacity (Small Data Centers, Medium Data Centers, Large Data Centers)
    - 5.2.4. By Service Type (Design & Consulting, Construction & Installation, Project Management)
    - 5.2.5. By End-User Industry (IT & Telecommunications, BFSI, Healthcare, Retail & E-Commerce, Others)
    - 5.2.6. By Country (United States, Canada, Mexico)
  - 5.3. By Company (2024)
  - 5.4. Market Map
- 6. United States Data Center Construction Market Outlook
  - 6.1. Market Size & Forecast
    - 6.1.1. By Value
  - 6.2. Market Share & Forecast
    - 6.2.1. By Type of Data Center
    - 6.2.2. By Construction Type
    - 6.2.3. By Power Capacity
    - 6.2.4. By Service Type
    - 6.2.5. By End-User Industry
- 7. Canada Data Center Construction Market Outlook
  - 7.1. Market Size & Forecast
    - 7.1.1. By Value
  - 7.2. Market Share & Forecast
    - 7.2.1. By Type of Data Center
    - 7.2.2. By Construction Type
    - 7.2.3. By Power Capacity
    - 7.2.4. By Service Type
    - 7.2.5. By End-User Industry
- 8. Mexico Data Center Construction Market Outlook
  - 8.1. Market Size & Forecast
    - 8.1.1. By Value
  - 8.2. Market Share & Forecast
    - 8.2.1. By Type of Data Center
    - 8.2.2. By Construction Type
    - 8.2.3. By Power Capacity
    - 8.2.4. By Service Type
    - 8.2.5. By End-User Industry
- 9. Market Dynamics
  - 9.1. Drivers
  - 9.2. Challenges
- 10. Market Trends and Developments
- 11. Company Profiles

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- 11.1. Amazon Web Services, Inc.
  - 11.1.1. Business Overview
  - 11.1.2. Key Revenue and Financials
  - 11.1.3. Recent Developments
  - 11.1.4. Key Personnel
  - 11.1.5. Key Product/Services Offered
- 11.2. Microsoft Corporation
  - 11.2.1. Business Overview
  - 11.2.2. Key Revenue and Financials
  - 11.2.3. Recent Developments
  - 11.2.4. Key Personnel
  - 11.2.5. Key Product/Services Offered
- 11.3. Google LLC
  - 11.3.1. Business Overview
  - 11.3.2. Key Revenue and Financials
  - 11.3.3. Recent Developments
  - 11.3.4. Key Personnel
  - 11.3.5. Key Product/Services Offered
- 11.4. Equinix, Inc.
  - 11.4.1. Business Overview
  - 11.4.2. Key Revenue and Financials
  - 11.4.3. Recent Developments
  - 11.4.4. Key Personnel
  - 11.4.5. Key Product/Services Offered
- 11.5. Digital Realty Trust Inc.
  - 11.5.1. Business Overview
  - 11.5.2. Key Revenue and Financials
  - 11.5.3. Recent Developments
  - 11.5.4. Key Personnel
  - 11.5.5. Key Product/Services Offered
- 11.6. NTT DATA, Inc.
  - 11.6.1. Business Overview
  - 11.6.2. Key Revenue and Financials
  - 11.6.3. Recent Developments
  - 11.6.4. Key Personnel
  - 11.6.5. Key Product/Services Offered
- 11.7. Vertiv Group Corp.
  - 11.7.1. Business Overview
  - 11.7.2. Key Revenue and Financials
  - 11.7.3. Recent Developments
  - 11.7.4. Key Personnel
  - 11.7.5. Key Product/Services Offered
- 11.8. CyrusOne LLO
  - 11.8.1. Business Overview
  - 11.8.2. Key Revenue and Financials
  - 11.8.3. Recent Developments
  - 11.8.4. Key Personnel

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- 11.8.5. Key Product/Services Offered
- 11.9. Iron Mountain, Inc.
  - 11.9.1. Business Overview
  - 11.9.2. Key Revenue and Financials
  - 11.9.3. Recent Developments
  - 11.9.4. Key Personnel
  - 11.9.5. Key Product/Services Offered
- 11.10. CBRE, Inc.
  - 11.10.1. Business Overview
  - 11.10.2. Key Revenue and Financials
  - 11.10.3. Recent Developments
  - 11.10.4. Key Personnel
  - 11.10.5. Key Product/Services Offered
- 11.11. Turner Construction Company
  - 11.11.1. Business Overview
  - 11.11.2. Key Revenue and Financials
  - 11.11.3. Recent Developments
  - 11.11.4. Key Personnel
  - 11.11.5. Key Product/Services Offered
- 11.12. Skanska USA Inc.
  - 11.12.1. Business Overview
  - 11.12.2. Key Revenue and Financials
  - 11.12.3. Recent Developments
  - 11.12.4. Key Personnel
  - 11.12.5. Key Product/Services Offered
- 12. Strategic Recommendations
- 13. About Us & Disclaimer

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