

# **Green Data Center Market Size, Share, & Trend Analysis Report By Component (Solution, Services), By Enterprise Size (Large Enterprises, SMEs), By End Use (BFSI, Retail, IT & Telecom, Healthcare, Manufacturing), By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

This report can be delivered to the clients within 4 Business Days

### **Green Data Center Market Growth & Trends**

The green data center market size is anticipated to reach USD 200.46 billion by 2030, registering a CAGR of 19.0% from 2025 to 2030, according to a new report by Grand View Research, Inc. The market is anticipated to be driven by the surge in penetration of high-end cloud computing in organizations, the rise in spending on green data center technology, and key vendors offering Economical (ECO) mode in Uninterrupted Power Supply (UPS) to boost the adoption of green data centers. Furthermore, favorable initiatives by regulatory bodies around the world aimed at supporting cloud proliferation are boosting the demand for data centers and, as a result, shaping the market. For example, the United Arab Emirates (UAE) has supported various cloud computing projects, such as Smart Abu Dhabi and Smart Dubai. These projects sought to accelerate enterprise digital transformation while also boosting countries' economic growth.

These measures by various governments throughout the world will drive product demand, ultimately driving market growth. Furthermore, as Machine Learning (ML), the Internet of Things (IoT), Artificial Intelligence (AI), big data, and become more prevalent,

worldwide electricity consumption will increase, providing another impetus for green data centers. Data centers account for 1 to 1.5 percent of global electricity usage, according to the International Energy Agency (IEA). As a result, a major emphasis on energy efficiency could propel the industry's growth. Moreover, AI and ML are expected to play a vital role in the future to efficiently cool and power data centers across the globe. Leveraging deep learning techniques, AI breaks down large volumes of data from several aspects of operating the data center and utilizes predictive modeling to gauge the effect on energy usage.

AI has demonstrated that data centers can help significantly reduce costs. These factors would further supplement the growth of the market. The adoption of a software-defined data center in the healthcare industry is expected to drive data center construction market growth in the near future. There has been an increase in medical expenditures every year. The Institute for Health Metrics and Evaluation predicts that by 2040, healthcare spending will total USD 18.28 trillion, with high-income countries spending USD 9,019 per person. Despite the nascent stage that healthcare organizations are in with adopting modern IT infrastructure changes, data management, networking, and server storage can be streamlined, unified, and improved by implementing a software-defined data center in the healthcare industry. These factors would further supplement the market growth.

### Green Data Center Market Report Highlights

The solution segment led the market with the largest revenue share of 63.3% in 2024, driven by the rising demand for advanced cooling solutions, such as liquid cooling and free cooling

The large enterprises segment led the market with the largest revenue share of 72.0% in 2024. Large enterprises generate and process exponentially growing volumes of data from digital transformation initiatives, enterprise software, customer relationship management (CRM), artificial intelligence, and edge computing

The BFSI segment led the market with the largest revenue share of 23.7% in 2024, driven by the growth of digital banking and fintech, which has exponentially increased data processing needs.

The IT & telecom segment is expected to grow at the fastest CAGR over the forecast period, due to the rise of edge computing. As latency-sensitive

applications (e.g., augmented reality, smart cities) proliferate

North America dominated the green data center market with the largest revenue share of 37.0% in 2024, driven by the expansion of hyperscale and cloud providers such as Amazon Web Services (AWS), Microsoft Azure, Google Cloud, and Meta

## **Companies Mentioned**

ABB  
Asetek Inc.  
Cisco Systems, Inc.  
Dell Inc.  
Delta Electronics, Inc.  
Digital Realty Trust  
Equinix, Inc.  
Fujitsu  
General Electric  
Hewlett Packard Enterprise Development LP  
Hitachi Energy Ltd.  
Huawei Technologies Co., Ltd.  
IBM Corporation  
Schneider Electric  
Siemens  
Vertiv Group Corp.

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