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Belgium Data Center Power - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Belgium Data Center Power Market size is estimated at USD 156.90 million in 2024, and is expected to reach USD 181.20 million by 2029, growing at a CAGR of 2.10% during the forecast period (2024-2029).

The increasing demand for cloud computing among SMEs, government regulations for local data security, and growing investment by domestic players are some of the major factors driving the demand for data centers in the country.

Under Construction IT Load Capacity: The upcoming IT load capacity of the Belgium data center market is expected to reach 260 MW by 2029.

Under Construction Raised Floor Space: The country's construction of raised floor area is expected to increase more than 1.3 million sq. ft by 2029.

Planned Racks: The country's total number of racks to be installed is expected to reach 65,000 units by 2029. Brussels will likely house the maximum number of racks by 2029.

An increasing need for data storage has resulted in an upsurge in the number of data centers, and the rising usage of data centers has increased electricity consumption in the country. Belgium has made clear progress in increasing competition in electricity and natural gas markets. It has reduced the use of fossil fuels and increased the share of renewable energy. The country’s economy is also becoming less energy intensive. Moreover, to further reduce energy consumption, key market players are focusing on introducing efficient power management systems such as PDUs, busways, and UPS for the purpose of controlling unnecessary expenditures in data centers, which is expected

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to increase market growth.

Planned Submarine Cables: Nearly five submarine cable systems connect Belgium, and many are under construction.

Belgium Data Center Power Market Trends

IT & Telecommunication Segment to Hold a Major Share in the Market

The increased adoption of cloud computing services in the country has increased the number of IT infrastructure components. Many technology companies have launched cloud services to support the digital transformation efforts of many enterprises, which is increasing the demand for the data center power market during the forecast period.

Moreover, the data center market is achieving new records due to the increasing penetration of connected devices, including consolidation and the emergence of new players. Such cases will have a positive impact on market growth.

Belgium has the highest number of bank branches per capita in Europe. Approximately 69% of Belgians regularly conduct business online and use online banking. In 2020, the number of internet banking subscribers in Belgium was 14.2 million. Belgian customers are increasingly using Internet banking in addition to the services provided by their local bank branches. These applications indicate increased smartphone usage, which puts more strain on the servers that power the devices. As the use of smart devices increases, data continues to grow, and storage capacity needs to expand to accommodate this uncontrollable data flow. As the market favors smart devices, data center expansion is necessary. Increasing data centers necessitates increasing the use of systems for power facilitation.

The number of servers in data centers will likely increase as the growing demand for these digital services and the changing adoption of end users, primarily focused on digital connectivity, require more data storage. Typically, this situation corresponds to increased demand for data centers. Increasing data centers necessitates increasing the use of systems for power facilitation.

PDUs are Expected to Hold a Significant Share in the Market

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The growing focus on digitization, internet penetration, and e-commerce across the country has created a need for storage capacity, resulting in huge demand for data centers and increased power consumption. The growing need for data storage is leading to the adoption of intelligent power distribution units (PDUs) to optimize power consumption in data centers rather than simple multi-socket rack installations and servers and networking devices.

PDUs are essential data center and server room infrastructure components, allowing real-time monitoring of power consumption, voltage, current, and other electrical parameters. This data allows administrators to make informed decisions about power allocation and capacity planning.

By tracking power consumption trends, managers can plan for future growth and avoid exceeding power capacity, preventing overloads that can lead to equipment failure. It also helps identify inefficiencies and optimize energy consumption. This eliminates unnecessary power consumption, lowers costs, and reduces your environmental footprint. Additionally, administrators can access and control it remotely, reducing the need for physical presence and minimizing disruption to operations.

Industrial end users gravitate toward cloud platforms such as Microsoft Azure, Google Cloud, and AWS. Growth trends indicate rapid adoption of cloud-based applications by end users. This opens the opportunity for intelligent and compact PDUs that can meet the increasing power requirements to operate such platforms.

With the country's largest growth of massive data centers, the need for PDUs is also increasing. Faster internet speeds and the associated proliferation of accessible devices play an important role in determining and estimating national data consumption. The number of 5G mobile connections has increased significantly, which means that the penetration rate of 5G mobile in the country is high. Increased data traffic will increase demand for DC facilities with intelligent PDU systems.

Belgium Data Center Power Industry Overview

The Belgium data center power market is moderately concentrated due to higher initial investments and low availability of resources. It is dominated by a few major players like

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Schneider Electric SE, Fujitsu Ltd, Cisco Technology Inc., Eaton Corporation, and ABB Ltd. These major players, with a prominent share of the market, focus on expanding their customer base across foreign countries. These companies leverage strategic collaborative initiatives to increase their market share and profitability. However, with technological advancements and product innovations, mid-size to smaller companies have increased their market presence by securing new contracts and tapping new markets.

January 2024: Caterpillar Inc. partnered with Microsoft and Ballard Power Systems to test the use of large-format hydrogen fuel cells as a reliable and eco-friendly backup power source for multi-megawatt data centers. Hydrogen fuel cells are seen as a possible low-carbon alternative to diesel backup generators, which is expected to drive the growth of DC generators.

March 2024: Schneider Electric announced its expansion of US manufacturing facilities at two locations to support critical infrastructure of data centers and other industries. The company planned to manufacture electrical switchgear and medium-voltage power distribution products at both locations.

Additional Benefits:

The market estimate (ME) sheet in Excel format

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