

# Global Low Energy Data Center Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Low Energy Data Center market size was valued at US\$ 78550 million in 2024 and is forecast to a readjusted size of USD 113570 million by 2031 with a CAGR of 5.5% during review period.

Data Centers are simply buildings that provide space, power and cooling for network infrastructure and are filled with varying amounts of servers. Data center power consumption is directly related to the number of servers they have. The Low Energy Data Center focuses on reducing the energy consumption of Data Centers.

The global low energy data center market refers to the market for data centers that are designed and operated with a focus on energy efficiency and sustainability. These data centers leverage various technologies and strategies to reduce energy consumption and minimize the environmental impact associated with data center operations.

Here are some key factors driving the growth of the global low energy data center market:

**Increasing data center energy consumption:** With the exponential growth of data-driven technologies and services, such as cloud computing, Internet of Things (IoT), and artificial intelligence (AI), data centers have become significant consumers of energy. As a result, there is a growing need for energy-efficient data center solutions to minimize the environmental footprint of these facilities.

**Rising energy costs:** Energy costs constitute a significant portion of the operational

expenditure for data centers. As energy prices continue to rise, data center operators are increasingly focusing on energy efficiency to reduce operating costs. Low energy data centers help in optimizing energy usage, thereby reducing energy bills.

**Environmental sustainability initiatives:** Governments, regulatory bodies, and organizations worldwide are increasingly emphasizing environmental sustainability and reducing carbon emissions. Low energy data centers align with these sustainability goals by implementing energy-efficient technologies and practices, reducing greenhouse gas emissions, and minimizing overall environmental impact.

**Advancements in technology:** Technological advancements have enabled the development of energy-efficient solutions for data centers. These include innovations in cooling systems, power distribution, server design, and energy management software. These advancements help data center operators minimize energy consumption without compromising performance and reliability.

**Corporate social responsibility (CSR):** Many organizations consider environmental sustainability and CSR as integral parts of their business strategies. Data centers, being critical infrastructure for storing and processing data, are expected to meet certain environmental standards. Low energy data centers allow organizations to demonstrate their commitment to sustainability and meet regulatory requirements.

In conclusion, the global low energy data center market is driven by the increasing energy consumption of data centers, rising energy costs, sustainability initiatives, technological advancements, and corporate social responsibility. The market is expected to grow as organizations and data center operators prioritize energy efficiency and environmental sustainability in their operations. The continuous evolution of energy-efficient technologies and the integration of renewable energy sources are expected to further fuel the growth of the market.

This report is a detailed and comprehensive analysis for global Low Energy Data Center market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## **Key Features:**

Global Low Energy Data Center market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Low Energy Data Center market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Low Energy Data Center market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Low Energy Data Center market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Low Energy Data Center
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Low Energy Data Center market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, Siemens, Delta Electronics, Cummins, Inc., GE, TDK, Eaton Corporation, AEG Power Solutions, Belkin International, Benning Power Electronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Low Energy Data Center market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

## Market segment by Type

Small and Medium Data Centers

Large Data Center

Others

## Market segment by Application

Government and Defence

Healthcare

Manufacturing

IT & Telecom

Others

## Major players covered

ABB

Siemens

Delta Electronics

Cummins, Inc.

GE

TDK

Eaton Corporation

AEG Power Solutions

Belkin International

Benning Power Electronics

Controlled Power Company

Cyber Power Systems B.V.

Emerson Network Power

Fuji Electric Corp

Mitsubishi Electric

MTU Onsite Energy

Phoenix Contact USA

Schneider Electric

Toshiba Corporation

Power Innovations International Inc

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Low Energy Data Center product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Low Energy Data Center, with price, sales quantity, revenue, and global market share of Low Energy Data Center from 2020 to 2025.

Chapter 3, the Low Energy Data Center competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Low Energy Data Center breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Low Energy Data Center market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Low Energy Data Center.

Chapter 14 and 15, to describe Low Energy Data Center sales channel, distributors, customers, research findings and conclusion.

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