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Global Data Center Emergency Power Generation System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Data Center Emergency Power Generation System market size was valued at US$ 1605 million in 2025 and is forecast to a readjusted size of US$ 2792 million by 2032 with a CAGR of 8.2% during review period.

In 2025, global production capacity of data center emergency power generation systems was approximately 2,600 systems, with actual deployment around 2,035 systems. The average system price was about 575 kUSD. Gross margins generally ranged from 22% to 38%, supported by system integration, reliability design, and long-term service value. A data center emergency power generation system is a backup power solution designed to provide continuous electricity supply during grid outages or power instability. It typically consists of generator sets, fuel supply systems, automatic transfer switches (ATS), control systems, exhaust and cooling systems, ensuring uninterrupted operation of mission-critical IT infrastructure.

Upstream includes engines (diesel or gas), alternators, control units, fuel systems, cooling systems, exhaust components, and soundproof enclosures. The midstream focuses on system design, integration, installation, commissioning, and compliance with data center standards. Downstream applications are mainly hyperscale data centers, colocation facilities, financial data centers, cloud service providers, and other mission-critical digital infrastructure, often bundled with long-term maintenance and service contracts.

The data center emergency power generation system market is expanding steadily, driven by rapid growth in cloud computing, AI workloads, and digital infrastructure.

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Power reliability is a top priority for data center operators, making redundant and highly reliable backup generation systems indispensable. Hyperscale data centers increasingly require N+1 or 2N redundancy configurations, significantly increasing system demand and value per site. At the same time, stricter environmental regulations are promoting the adoption of low-emission engines, gas generators, and hybrid solutions combined with energy storage. Although capital expenditure is high, the cost of downtime far outweighs system investment, ensuring stable demand. Overall, emergency power generation systems remain a critical, non-substitutable component of modern data center infrastructure.

This report is a detailed and comprehensive analysis for global Data Center Emergency Power Generation System 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 Data Center Emergency Power Generation System market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Data Center Emergency Power Generation System market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Data Center Emergency Power Generation System market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Data Center Emergency Power Generation System market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (K US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

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To assess the growth potential for Data Center Emergency Power Generation System
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Data Center Emergency Power Generation System 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 Caterpillar, Cummins, Rolls-Royce Power Systems, W?rtsil?, Mitsubishi Heavy Industries, Atlas Copco, Generac, Kohler, Doosan, Perkins, etc.

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

Market Segmentation

Data Center Emergency Power Generation System market is split by Type and by Application. For the period 2021-2032, 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

Diesel generator systems

Gas generator systems

Market segment by System Configuration

Single-generator emergency systems

Multi-generator parallel systems

Market segment by Application

Cloud computing

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Internet

Finance

Government

Power

Other

Major players covered

Caterpillar

Cummins

Rolls-Royce Power Systems

W?rtsil?

Mitsubishi Heavy Industries

Atlas Copco

Generac

Kohler

Doosan

Perkins

Yanmar

ABB

Siemens

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Aggreko

Piller

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 Data Center Emergency Power Generation System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Center Emergency Power Generation System, with price, sales quantity, revenue, and global market share of Data Center Emergency Power Generation System from 2021 to 2026.

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

Chapter 4, the Data Center Emergency Power Generation System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026.and Data Center Emergency Power Generation System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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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 Data Center Emergency Power Generation System.

Chapter 14 and 15, to describe Data Center Emergency Power Generation System sales channel, distributors, customers, research findings and conclusion.

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