

# Global Data Center Solid Oxide Fuel Cells (SOFC) 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 Solid Oxide Fuel Cells (SOFC) market size was valued at US\$ 145 million in 2025 and is forecast to a readjusted size of US\$ 620 million by 2032 with a CAGR of 20.6% during review period.

Data Center Solid Oxide Fuel Cells (SOFC) refer to the use of solid oxide fuel cell systems as on-site power generation units for data centers, providing continuous, high-efficiency, low-emission electricity by electrochemically converting fuels such as natural gas, hydrogen, or biogas into electrical energy. SOFC systems operate at high temperatures (typically 600-1000°C) and generate electricity without combustion, making them suitable for baseload, backup, or hybrid power supply in mission-critical data center infrastructure. In 2025, the global newly installed capacity of solid oxide fuel cells (SOFCs) for data center applications is projected to reach approximately 50.19MW, with an average system selling price of about USD 2,816 per kW.

This report is a detailed and comprehensive analysis for global Data Center Solid Oxide Fuel Cells (SOFC) 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 Solid Oxide Fuel Cells (SOFC) market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Data Center Solid Oxide Fuel Cells (SOFC) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Data Center Solid Oxide Fuel Cells (SOFC) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Data Center Solid Oxide Fuel Cells (SOFC) market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 2021-2026

### **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 Data Center Solid Oxide Fuel Cells (SOFC)

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 Solid Oxide Fuel Cells (SOFC) 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 Bloom Energy, Aisin Corporation, Mitsubishi Power, Kyocera Corp., MIURA CO., LTD., Ceres, SolydEra, Sunfire GmbH, Convion, Elcogen, etc.

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

### **Market Segmentation**

Data Center Solid Oxide Fuel Cells (SOFC) 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

Planar

Tubular

Others

#### Market segment by System Structure

Prime Power SOFC

Grid-Parallel SOFC

Backup SOFC

SOFC-UPS Hybrid

#### Market segment by Application

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

#### Major players covered

Bloom Energy

Aisin Corporation

Mitsubishi Power

Kyocera Corp.

MIURA CO., LTD.

Ceres

SolydEra

Sunfire GmbH

Convion

Elcogen

Special Power Sources (SPS)

Topsoe

Redox Power Systems

OxEon Energy

WATT Fuel Cell

H2E Power

Upstart Power

New Enerday

Special Power Sources

Nexceris

Adelan fuel cells

Redwire Space

Chemtronergy

Fuel Cell Energy

Doosan Fuel Cell

Bosch Hydrogen Energy

Egen Energy

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 Solid Oxide Fuel Cells (SOFC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Center Solid Oxide Fuel Cells (SOFC), with price, sales quantity, revenue, and global market share of Data Center Solid Oxide Fuel Cells (SOFC) from 2021 to 2026.

Chapter 3, the Data Center Solid Oxide Fuel Cells (SOFC) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Data Center Solid Oxide Fuel Cells (SOFC) 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 Solid Oxide Fuel Cells (SOFC) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Solid Oxide Fuel Cells (SOFC).

Chapter 14 and 15, to describe Data Center Solid Oxide Fuel Cells (SOFC) sales channel, distributors, customers, research findings and conclusion.

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