

# Global Data Center Solid Oxide Fuel Cells (SOFC) Market Growth 2026-2032

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## Abstracts

The global Data Center Solid Oxide Fuel Cells (SOFC) market size is predicted to grow from US\$ 138 million in 2025 to US\$ 628 million in 2032; it is expected to grow at a CAGR of 21.8% from 2026 to 2032.

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.

United States market for Data Center Solid Oxide Fuel Cells (SOFC) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Data Center Solid Oxide Fuel Cells (SOFC) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Data Center Solid Oxide Fuel Cells (SOFC) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Data Center Solid Oxide Fuel Cells (SOFC) players cover Bloom Energy, Aisin Corporation, Mitsubishi Power, Kyocera Corp., MIURA CO., LTD., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Data Center Solid Oxide Fuel Cells (SOFC) Industry Forecast" looks at past sales and reviews total world Data Center Solid Oxide Fuel Cells (SOFC) sales in 2025, providing a comprehensive analysis by region and market sector of projected Data Center Solid Oxide Fuel Cells (SOFC) sales for 2026 through 2032. With Data Center Solid Oxide Fuel Cells (SOFC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Data Center Solid Oxide Fuel Cells (SOFC) industry.

This Insight Report provides a comprehensive analysis of the global Data Center Solid Oxide Fuel Cells (SOFC) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Data Center Solid Oxide Fuel Cells (SOFC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Data Center Solid Oxide Fuel Cells (SOFC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center Solid Oxide Fuel Cells (SOFC) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Data Center Solid Oxide Fuel Cells (SOFC).

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center Solid Oxide Fuel Cells (SOFC) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Planar

Tubular

Others

Segmentation by System Structure:

Prime Power SOFC

Grid-Parallel SOFC

Backup SOFC

SOFC-UPS Hybrid

Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Data Center Solid Oxide Fuel Cells (SOFC) market?

What factors are driving Data Center Solid Oxide Fuel Cells (SOFC) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Data Center Solid Oxide Fuel Cells (SOFC) market opportunities vary by end market size?

How does Data Center Solid Oxide Fuel Cells (SOFC) break out by Type, by Application?

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