

Global SOFC 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 SOFC market size was valued at US\$ 2303 million in 2024 and is forecast to a readjusted size of USD 13140 million by 2031 with a CAGR of 28.6% during review period.

The Solid Oxide Fuel Cell (SOFC) is an all-solid chemical power generation device that directly converts the chemical energy stored in the fuel and oxidizer into electrical energy at medium and high temperature in an efficient and environmentally friendly manner. The SOFC is a type of fuel cell, which is characterized by the use of solid oxide materials as the electrolyte. SOFC uses a solid oxide electrolyte to conduct negative oxygen ions from the cathode to the anode.

Global SOFC core manufacturers include Bloom Energy, FuelCell Energy, Aisin Seiki, Siemens Energy, Protonex and LG Fuel Cell Systems. The top three manufacturers account for approximately 88% of the global share. North America is the world's largest market, accounting for nearly 60% of the market share.

In terms of product type, planar occupies a dominant position, accounting for 83% of the market share. At the same time, in terms of application, stationary is the largest application field, accounting for 80%.

This report is a detailed and comprehensive analysis for global 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 SOFC market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global SOFC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global SOFC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global SOFC market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (USD/KW), 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 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 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 Seiki, Mitsubishi Power, Ceres, SolydEra, Upstart Power, Convion, Special Power Sources (SPS), Egen Energy, Redox Power Systems, etc.

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

Market Segmentation

SOFC 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

Planar

Tubular

Others

Market segment by Application

Transportation

Stationary

Portable & Military

Major players covered

Bloom Energy

Aisin Seiki

Mitsubishi Power

Ceres

SolydEra

Upstart Power

Convion

Special Power Sources (SPS)

Egen Energy

Redox Power Systems

ZTEK Corporation

OxEon 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 SOFC product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the SOFC 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 SOFC 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 SOFC.

Chapter 14 and 15, to describe SOFC sales channel, distributors, customers, research findings and conclusion.

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