

# Global Solid Oxide Fuel Cell (SOFC) Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

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## **Abstracts**

## Summary

Solid oxide fuel cells are emission free power sources, which run on electrochemical conversion reactions. SOFC use ceramic electrolytes that are hard and non-porous in nature. As the electrolyte is a solid, the cells are not necessarily constructed in a plate-like configuration as seen in other fuel cell types. Electrical efficiency provided is around 50% to 60%. In applications designed to capture and utilize the system's waste heat (cogeneration), the overall fuel use efficiency could top 80% to 85% and operate at very high temperatures of around 1,000°C (1,830°F). The unique properties of solid oxide fuel cell such as portability, long-term stability, easy fuel selection, and emission-free power serve this requirement. These cells have vast applications, with military applications expecting the highest growth. Planar SOFC has been identified to be the dominating fuel cell in the market for its versatility. This report studies the Solid Oxide Fuel Cell (SOFC) market, from angles of players, regions, product types and end industries, to analyze the status and the future. The scope of this report is mainly for commercial companies, excluding products from government departments and research institutions.

According to APO Research, The global Solid Oxide Fuel Cell (SOFC) market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

North American market for Solid Oxide Fuel Cell (SOFC) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.



Asia-Pacific market for Solid Oxide Fuel Cell (SOFC) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Solid Oxide Fuel Cell (SOFC) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Solid Oxide Fuel Cell (SOFC) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Solid Oxide Fuel Cell (SOFC) include Bloom Energy, Siemens Energy, Aisin Seiki, Mitsubishi Heavy Industries, Delphi, GE, Convion, FuelCell Energy and Atrex Energy, Inc, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

This report presents an overview of global market for Solid Oxide Fuel Cell (SOFC), sales, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Solid Oxide Fuel Cell (SOFC), also provides the sales of main regions and countries. Of the upcoming market potential for Solid Oxide Fuel Cell (SOFC), and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Solid Oxide Fuel Cell (SOFC) sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Solid Oxide Fuel Cell (SOFC) market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.



This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Solid Oxide Fuel Cell (SOFC) sales, projected growth trends, production technology, application and end-user industry.

Solid Oxide Fuel Cell (SOFC) segment by Company

Bloom Energy
Siemens Energy
Aisin Seiki
Mitsubishi Heavy Industries
Delphi
GE
Convion
FuelCell Energy
Atrex Energy, Inc
SOLIDpower
ZTEK
Redox Power Systems
Ceres
Elcogen

Solid Oxide Fuel Cell (SOFC) segment by Type

Tubular



Planar
Others
Solid Oxide Fuel Cell (SOFC) segment by Application
Transportation
Portable & Military
Stationary
Solid Oxide Fuel Cell (SOFC) segment by Region
North America
U.S.
Canada
Europe
Germany
France
U.K.
Italy
Russia
Asia-Pacific
China



	Japan
	South Korea
	India
	Australia
	China Taiwan
	Indonesia
	Thailand
	Malaysia
Latin A	America
	Mexico
	Brazil
	Argentina
Middle	e East & Africa
	Turkey
	Saudi Arabia
	UAE
/ Objecti	ves
•	

## Study

1. To analyze and research the global Solid Oxide Fuel Cell (SOFC) status and future forecast, involving, sales, revenue, growth rate (CAGR), market share, historical and forecast.



- 2. To present the key manufacturers, sales, revenue, market share, and Recent Developments.
- 3. To split the breakdown data by regions, type, manufacturers, and Application.
- 4. To analyze the global and key regions Solid Oxide Fuel Cell (SOFC) market potential and advantage, opportunity and challenge, restraints, and risks.
- 5. To identify Solid Oxide Fuel Cell (SOFC) significant trends, drivers, influence factors in global and regions.
- 6. To analyze Solid Oxide Fuel Cell (SOFC) competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

## Reasons to Buy This Report

- 1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Solid Oxide Fuel Cell (SOFC) market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
- 2. This report will help stakeholders to understand the global industry status and trends of Solid Oxide Fuel Cell (SOFC) and provides them with information on key market drivers, restraints, challenges, and opportunities.
- 3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.
- 4. This report stays updated with novel technology integration, features, and the latest developments in the market.
- 5. This report helps stakeholders to gain insights into which regions to target globally.
- 6. This report helps stakeholders to gain insights into the end-user perception



concerning the adoption of Solid Oxide Fuel Cell (SOFC).

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## **Chapter Outline**

Chapter 1: Provides an overview of the Solid Oxide Fuel Cell (SOFC) market, including product definition, global market growth prospects, sales value, sales volume, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Solid Oxide Fuel Cell (SOFC) industry.

Chapter 3: Detailed analysis of Solid Oxide Fuel Cell (SOFC) manufacturers competitive landscape, price, sales and revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Sales and value of Solid Oxide Fuel Cell (SOFC) in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of each country in the world.

Chapter 7: Sales and value of Solid Oxide Fuel Cell (SOFC) in country level. It provides sigmate data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the



industry.

Chapter 10: Concluding Insights.



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