

# **Solid Oxide Fuel Cell Market based on By Application (Stationary, Transport, Portable), By End-User (Commercial, Data Centers, Military & Defense, and Others), Regional Outlook– Global Forecast up to 2032**

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## **Abstracts**

Estimating the present size of the solid oxide fuel cell market was one of the study's main tasks. To gather data on the parent and peer markets, a thorough investigation was conducted through secondary research. The following stage involved conducting primary research to confirm these conclusions, hypotheses, and sizing with industry experts throughout the value chain. Two methodologies were utilized to approximate the overall market size: top-down and bottom-up. The market size of the segments and subsegments was then estimated using data triangulation and market breakdown.

A number of parties are involved in the solid oxide fuel cell market, including supply chain technical support providers, manufacturers of solid oxide fuel cells, and technology providers. The growing need for solid oxide fuel cells in the automotive, aerospace, defense & government services, wireless communication & infrastructure, consumer electronics, medical equipment manufacturing, and energy sector applications characterizes the demand side of this market. Growing demand from the industrial sector for contracts and large-scale player mergers and acquisitions define the supply side. To gather both qualitative and quantitative data, a range of primary sources from the supply and demand sides of the market were questioned.

In order to gather and identify data relevant for a technical, market-oriented, and commercial study of the solid oxide fuel cell market, this research study on the market involved the use of numerous secondary sources, directories, and databases, including Bloomberg, Factiva, IRENA, International Energy Agency, Statista Industry Journal, and

The Fuel Cell Energy Review, E4Tech. The other secondary sources included manufacturer organizations, trade directories, databases, white papers, certified publications, investor presentations and annual reports, as well as pieces written by renowned writers and manufacturer associations.

The segmentation coverage of the study is provided below.

Solid Oxide Fuel Cell Market based on Application:

Stationary

Transport

Portable

Solid Oxide Fuel Cell Market based on End user:

Commercial

Data Centers

Military & Defense

Others

Solid Oxide Fuel Cell Market based on Geography:

North America

US

Canada

Europe

Germany

UK

France

Italy

Spain

Rest of Europe (RoE)

Asia Pacific (APAC)

China

Japan

India

Australia

South Korea

Rest of Asia Pacific (RoAPAC)

Latin America (LATAM)

Brazil

Argentina

Rest of South America

Middle East and Africa (MEA)

UAE

Turkey

Saudi Arabia

South Africa

Rest of Middle East & Africa

Following the estimating procedure described above, the total market size was determined and then divided into a number of segments and subsegments. To finish the entire market engineering process and determine the precise statistics for each and every segment and sub-segment, as appropriate, data triangulation and market breakdown procedures have been used. Through an analysis of numerous variables and patterns from the supply and demand sides, the data has been triangulated. Furthermore, the market has been validated through the application of both top-down and bottom-up methodologies.

An electrochemical energy conversion device that produces electricity directly from fuel oxidation is a solid oxide fuel cell (SOFC). A solid or ceramic electrolyte material is placed between the anode and cathode electrodes to facilitate the electrochemical conversion. This conversion method oxidizes fuel to produce power immediately. Because they don't require recharging and may generate energy as long as fuel is available, SOFCs are also regarded as a type of flow battery. We have taken the system and the remaining plant costs into account while estimating the market.

One of the key reasons propelling the SOFC market is the growing concerns about reducing harmful carbon emissions and the growing adoption of low carbon technology. Numerous nations have outlined their plans to meet the growing need for energy by promoting the use of fuel cells as a clean power source. For example, the International Energy Agency (IEA) said in its April 2021 Global Energy Review 2021 that in 2020, the use of clean energy rose by around 3%, while the production of electricity from renewable sources increased by approximately 7%. It further stated that within the same time frame, there was a decrease in the demand for other essential fuels.

Recently, the commercialization of SOFC systems has begun with certain niche markets, including as on-site power generation, particularly for data centers, small-scale combined heat and power (CHP) in Japan, and military applications in the United States. The majority of industry players have concentrated their R&D efforts on creating SOFCs with a variety of uses. Consequently, there have been several public-private partnerships in the industry.

The industry participants face a challenging task in reducing costs and enhancing quality, despite the fact that policymakers are gradually approving market participants to showcase their initiatives. It is anticipated that the market would see introduction programs for micro-CHP systems aimed at the residential sector in the upcoming years.

The solid oxide fuel cell market with the quickest rate of growth is found in North America. In comparison to the rest of the globe, the solid oxide fuel cell market in the United States has grown significantly and is growing quickly thanks to strong government support and a strategic market emphasis. Additionally, the US solid oxide fuel cell market had the most market share, whereas the fastest-growing solid oxide fuel cell market in this region was Canada.

The demand for renewable energy is predicted to increase, along with the need to reduce carbon emissions and the use of hydrogen-based Combined Heat and Power (CHP) systems. As a result, the solid oxide fuel cell market in Europe is anticipated to develop at a significant compound annual growth rate (CAGR) between 2022 and 2030. For example, the Fuel Cells and Hydrogen Joint Undertaking (FCH JU), a collaborative research and development program in Europe involving the public and private sectors, estimated in 2019 that by 2050, hydrogen fuel will probably account for about 24% of the region's total energy consumption. Furthermore, the region's fastest-growing solid oxide fuel cell market was Germany, while the UK solid oxide fuel cell market retained the greatest market share.

This report illustrates the most vital attributes of the Solid Oxide Fuel Cell Market, which are driving and providing opportunities.

This research gives an in-depth analysis of the Solid Oxide Fuel Cell Market growth on the basis of several segments in the market.

This report presents the predictions of the past and present trends of the Solid Oxide Fuel Cell Market.

This study also presents the competitive analysis, such as key strategies and capabilities of major players of the Solid Oxide Fuel Cell Market.

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