

Global Solid Oxide Fuel Cell (SOFC) Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

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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.

The US & Canada 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.

In terms of production side, this report researches the Solid Oxide Fuel Cell (SOFC) production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Solid Oxide Fuel Cell (SOFC) by region (region level and country level), by company, by type and by application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Solid Oxide Fuel Cell (SOFC), capacity, output, 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 consumption 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 America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, 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 market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze 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 volume 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, production value, capacity, 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) market competition landscape. Including Solid Oxide Fuel Cell (SOFC) manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, 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: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of Solid Oxide Fuel Cell (SOFC) by region. It provides a quantitative analysis of the market size and development potential of each

region in the next six years.

Chapter 8: Consumption of Solid Oxide Fuel Cell (SOFC) in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

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

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