

Global Solid Oxide Fuel Cell (SOFC) Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GEC18EB0A875EN.html>

Date: June 2026

Pages: 125

Price: US\$ 4,480.00 (Single User License)

ID: GEC18EB0A875EN

Abstracts

The global Solid Oxide Fuel Cell (SOFC) market size is expected to reach \$ 12254 million by 2032, rising at a market growth of 29.0% CAGR during the forecast period (2026-2032).

Solid Oxide Fuel Cells (SOFCs) are high-temperature fuel cells that use a solid, non-porous ceramic oxide as the electrolyte. They convert the chemical energy of fuels such as hydrogen, natural gas, biogas, syngas or carbon monoxide directly into electricity and heat through electrochemical reactions rather than combustion. SOFCs are characterized by high electrical efficiency, fuel flexibility, low pollutant emissions and the ability to provide combined heat and power. In 2025, global Solid Oxide Fuel Cells (SOFCs) production reached approximately 406.03 MW. The SOFC value chain starts with upstream materials and components, including ceramic electrolytes, anode and cathode powders, interconnects, sealants, catalysts, metal housings, heat exchangers, fuel reformers, blowers, inverters and control electronics. Key materials such as yttria-stabilized zirconia (YSZ), gadolinium-doped ceria (GDC/CGO), nickel-based anodes and LSM/LSCF cathodes are critical to cell performance, durability and operating temperature. The downstream market is concentrated in distributed generation, data centers, commercial and industrial CHP, residential micro-CHP, remote power, microgrids and utility-scale distributed power projects.

The Solid Oxide Fuel Cells (SOFCs) market is transitioning from demonstration and early deployment toward larger-scale commercial adoption, especially in stationary distributed power generation. Compared with PEM fuel cells, SOFCs offer higher fuel flexibility, high electrical efficiency and high-grade waste heat for cogeneration, making them attractive for data centers, industrial facilities, commercial buildings, microgrids and utility-backed distributed power projects. Demand from AI data centers, grid

congestion and industrial decarbonization is strengthening the business case for SOFC systems. However, the market remains constrained by stack durability, thermal cycling, high-temperature sealing, system cost and manufacturing scale-up. Therefore, near-term adoption is expected to be concentrated in premium applications requiring continuous power, high reliability, low emissions and strong energy-efficiency benefits.

This report studies the global Solid Oxide Fuel Cell (SOFC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid Oxide Fuel Cell (SOFC) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solid Oxide Fuel Cell (SOFC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solid Oxide Fuel Cell (SOFC) total production and demand, 2021-2032, (MW)

Global Solid Oxide Fuel Cell (SOFC) total production value, 2021-2032, (USD Million)

Global Solid Oxide Fuel Cell (SOFC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Solid Oxide Fuel Cell (SOFC) consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: Solid Oxide Fuel Cell (SOFC) domestic production, consumption, key domestic manufacturers and share

Global Solid Oxide Fuel Cell (SOFC) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Solid Oxide Fuel Cell (SOFC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Solid Oxide Fuel Cell (SOFC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Solid Oxide Fuel Cell (SOFC) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bloom Energy, Mitsubishi Power, Aisin Corporation, Ceres, SolydEra, Upstart Power, Special Power Sources (SPS), Convion, Redox Power Systems, Sanhuan Group, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Solid Oxide Fuel Cell (SOFC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KW) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Solid Oxide Fuel Cell (SOFC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid Oxide Fuel Cell (SOFC) Market, Segmentation by Type:

Tubular

Planar

Others

Global Solid Oxide Fuel Cell (SOFC) Market, Segmentation by Power Rating:

Below 1 kW

1–10 kW

10–100 kW

100 kW–1 MW

Others

Global Solid Oxide Fuel Cell (SOFC) Market, Segmentation by Operating Temperature:

High-temperature

Intermediate-temperature

Low-temperature

Global Solid Oxide Fuel Cell (SOFC) Market, Segmentation by Application:

Transportation

Portable & Military

Stationary

Companies Profiled:

Bloom Energy

Mitsubishi Power

Aisin Corporation

Ceres

SolydEra

Upstart Power

Special Power Sources (SPS)

Convion

Redox Power Systems

Sanhuan Group

Egen Energy

Huaqing New Energy

OxEon Energy

Key Questions Answered:

1. How big is the global Solid Oxide Fuel Cell (SOFC) market?
2. What is the demand of the global Solid Oxide Fuel Cell (SOFC) market?
3. What is the year over year growth of the global Solid Oxide Fuel Cell (SOFC) market?
4. What is the production and production value of the global Solid Oxide Fuel Cell (SOFC) market?
5. Who are the key producers in the global Solid Oxide Fuel Cell (SOFC) market?
6. What are the growth factors driving the market demand?

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