

Global SOFC and SOEC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SOFC and SOEC market size is expected to reach \$ 10334 million by 2032, rising at a market growth of 27.1% CAGR during the forecast period (2026-2032). SOFC and SOEC, or SOFCs (Solid Oxide Fuel Cells) and SOECs (Solid Oxide Electrolyzer Cells) are both electrochemical devices that utilize a solid oxide (ceramic) electrolyte, but they operate in opposite modes. SOFCs convert chemical energy directly into electrical energy, while SOECs use electrical energy to produce chemical energy, specifically hydrogen from water. Essentially, an SOEC is an SOFC operating in reverse. In 2025, global SOFC and SOEC production reached approximately 399.70 MW. The main upstream raw materials for SOFC/SOEC include the following: electrolyte materials (YSZ / ScSZ / GDC, etc.), cathode/anode materials (LSCF/LSM, NiO, composite powders/inks), bipolar plates and structural components (interconnect alloys/coated strip steel), sealing materials (glass / glass-ceramic seals, sealing frits/pastes), etc.

In the context of the turnaround in energy policy, research focusses on technologies that can be used for the decentralized production of renewable (green) hydrogen (electrolyzer) or the reconversion of hydrogen into electricity (fuel cell). Due to the high efficiency (> 80 % for cogeneration) and the good scalability (system sizes in the kW to MW range), systems based on the solid oxide cell (SOC) will be the key technology for achieving the climate targets. SOCs contain a dense oxygen-ion conducting ceramic as electrolyte. The electrolyte is embedded between a porous electrode layer composed of a ceramic-metal composite at the fuel side of the cell and a nanoporous oxygen ion and electronic conducting ceramic layer at the air electrode of the cell.

This report studies the global SOFC and SOEC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SOFC and SOEC 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 SOFC and SOEC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SOFC and SOEC total production and demand, 2021-2032, (MW)

Global SOFC and SOEC total production value, 2021-2032, (USD Million)

Global SOFC and SOEC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global SOFC and SOEC consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: SOFC and SOEC domestic production, consumption, key domestic manufacturers and share

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

Global SOFC and SOEC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global SOFC and SOEC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global SOFC and SOEC 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, Aisin Corporation, Mitsubishi Power, Ceres, SolydEra, Sunfire GmbH, Upstart Power, Convion, Special Power Sources (SPS), Egen Energy, 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 SOFC and SOEC 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 SOFC and SOEC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SOFC and SOEC Market, Segmentation by Type:

Planar

Tubular

Others

Global SOFC and SOEC Market, Segmentation by Model:

SOFC

SOEC

Global SOFC and SOEC Market, Segmentation by Industry Demand:

Industrial Applications

Data Centers

Transportation

Global SOFC and SOEC Market, Segmentation by Application:

Stationary

Transportation

Portable & Military

Companies Profiled:

Bloom Energy

Aisin Corporation

Mitsubishi Power

Ceres

SolydEra

Sunfire GmbH

Upstart Power

Convion

Special Power Sources (SPS)

Egen Energy

Topsoe

Redox Power Systems

OxEon Energy

Sanhuan Group

Huaqing New Energy

SOFCMAN

BPEC

Weichai Power

Wuhan Huake Fuelcell

Foshan ISOFC

Swift New Energy

Key Questions Answered:

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

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