

# Global SOFC and SOEC Market Growth 2026-2032

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## Abstracts

The global SOFC and SOEC market size is predicted to grow from US\$ 1858 million in 2025 to US\$ 10635 million in 2032; it is expected to grow at a CAGR of 28.8% from 2026 to 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. SOC contains 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.

LP Information, Inc. (LPI) ' newest research report, the "SOFC and SOEC Industry Forecast" looks at past sales and reviews total world SOFC and SOEC sales in 2025,

providing a comprehensive analysis by region and market sector of projected SOFC and SOEC sales for 2026 through 2032. With SOFC and SOEC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SOFC and SOEC industry.

This Insight Report provides a comprehensive analysis of the global SOFC and SOEC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SOFC and SOEC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SOFC and SOEC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SOFC and SOEC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SOFC and SOEC.

This report presents a comprehensive overview, market shares, and growth opportunities of SOFC and SOEC market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Planar

Tubular

Others

#### Segmentation by Model:

SOFC

SOEC

### Segmentation by Industry Demand:

Industrial Applications

Data Centers

Transportation

### Segmentation by Application:

Stationary

Transportation

Portable & Military

### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report**

What is the 10-year outlook for the global SOFC and SOEC market?

What factors are driving SOFC and SOEC market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SOFC and SOEC market opportunities vary by end market size?

How does SOFC and SOEC break out by Type, by Application?

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