

# Global SOFC and SOEC Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global SOFC and SOEC market size will reach 2,890.88 Million USD in 2025 and is projected to reach 18,286.87 Million USD by 2032, with a CAGR of 30.15% (2025-2032). Notably, the China SOFC and SOEC market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Solid Oxide Fuel Cells (SOFCs) and Solid Oxide Electrolysis Cells (SOECs) are types of electrochemical devices based on similar principles but designed for different purposes. SOFCs operate as fuel cells, converting chemical energy directly into electrical energy through the oxidation of a fuel (such as hydrogen, methane, or carbon monoxide) at the anode and reduction of oxygen at the cathode. This process generates electricity, heat, and water as byproducts. SOFCs are highly efficient (up to 60-80% electrical efficiency) and can be used for stationary power generation in applications like residential and industrial cogeneration, as well as portable and auxiliary power units. In contrast, SOECs operate in reverse as electrolysis cells, using electrical energy to split water into hydrogen and oxygen at elevated temperatures (typically 500-900°C). This process enables the production of hydrogen, which can be used as a clean fuel or as a feedstock for various industrial processes. SOECs are being developed for renewable hydrogen production and energy storage applications, leveraging their efficiency and ability to integrate with renewable energy sources to facilitate the transition towards a sustainable energy economy.

The major global manufacturers of SOFC and SOEC include Bloom Energy, Aisin Seiki, Mitsubishi Power, Ceres, SolydEra, Sunfire GmbH, Convion, Topsoe, Special Power Sources (SPS), Redox Power Systems, ZTEK Corporation, OxEon Energy, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of SOFC and SOEC. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global SOFC and SOEC market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the SOFC and SOEC market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of SOFC and SOEC industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of SOFC and SOEC Include:

Bloom Energy

Aisin Seiki

Mitsubishi Power

Ceres

SolydEra

Sunfire GmbH

Convion

Topsoe

Special Power Sources (SPS)

Redox Power Systems

ZTEK Corporation

OxEon Energy

SOFC and SOEC Product Segment Include:

Planar

Tubular

Others

SOFC and SOEC Product Application Include:

Stationary

Transportation

Portable & Military

## **Chapter Scope**

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