

# Global SOEC Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global SOEC market size was valued at USD 35 million in 2023 and is forecast to a readjusted size of USD 931.4 million by 2030 with a CAGR of 59.8% during review period.

A solid oxide electrolyzer cell (SOEC) is a solid oxide fuel cell that runs in regenerative mode to achieve the electrolysis of water (and/or carbon dioxide) by using a solid oxide, or ceramic, electrolyte to produce hydrogen gas (and/or carbon monoxide) and oxygen. The production of pure hydrogen is compelling because it is a clean fuel that can be stored, making it a potential alternative to batteries, methane, and other energy sources (see hydrogen economy). Electrolysis is currently the most promising method of hydrogen production from water due to high efficiency of conversion and relatively low required energy input when compared to thermochemical and photocatalytic methods.

The key manufacturers of solid oxide electrolyzer (SOEC) include Sunfire GmbH, Topsoe, OxEon Energy, Ceres, Elcogen, FuelCell Energy, Egen Energy, etc. Sunfire GmbH is the world's largest manufacturer with a market share of about 50%.

Europe is the biggest market, accounting for about 52%. It is followed by North America, with about 24%. The market share in Europe and China is expected to increase further.

SOEC is mainly divided into Oxygen Ion Conducting and Proton Conducting. Oxygen Ion Conducting has a dominant market share of about 95%.

SOEC is mainly used in chemicals and refineries, power plants, steel plants and other factories. It is most widely used in chemical and refineries, accounting for about 50% of all downstream industries.

The Global Info Research report includes an overview of the development of the SOEC industry chain, the market status of Chemicals and Refineries (Oxygen Ion Conducting, Proton Conducting), Power Plants (Oxygen Ion Conducting, Proton Conducting), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of SOEC.

Regionally, the report analyzes the SOEC markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global SOEC market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the SOEC market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the SOEC industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Oxygen Ion Conducting, Proton Conducting).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the SOEC market.

**Regional Analysis:** The report involves examining the SOEC market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the SOEC market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to SOEC:

**Company Analysis:** Report covers individual SOEC players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards SOEC. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Chemicals and Refineries, Power Plants).

**Technology Analysis:** Report covers specific technologies relevant to SOEC. It assesses the current state, advancements, and potential future developments in SOEC areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the SOEC market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

SOEC market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

### Market segment by Type

Oxygen Ion Conducting

Proton Conducting

### Market segment by Application

Chemicals and Refineries

Power Plants

Steel Plant

Others

Market segment by players, this report covers

Sunfire GmbH

Topsoe

OxEon Energy

Ceres

Elcogen

FuelCell Energy

Egen Energy

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe SOEC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of SOEC, with revenue, gross margin and global market share of SOEC from 2019 to 2024.

Chapter 3, the SOEC competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and SOEC market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of SOEC.

Chapter 13, to describe SOEC research findings and conclusion.

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