

# Global Solid Oxide Electrolysis Cell (SOEC) Technology Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Solid Oxide Electrolysis Cell (SOEC) Technology market size was valued at US\$ 256 million in 2025 and is forecast to a readjusted size of US\$ 2227 million by 2032 with a CAGR of 36.6% during review period.

Solid oxide electrolysis cell (SOEC) technology is an advanced device that performs highly efficient electrochemical energy conversion at high temperatures (typically 700°C-850°C). Its core component is an electrolysis cell using a solid oxide ceramic electrolyte. Driven by external electrical energy, it can efficiently electrolyze water vapor into hydrogen and oxygen, or further co-electrolyze carbon dioxide and water vapor to produce a synthesis gas of hydrogen and carbon monoxide. This technology utilizes high temperatures to reduce the electrical energy required for the reaction and improve energy conversion efficiency. It is a key frontier for achieving large-scale green hydrogen production, resource utilization of carbon dioxide, and the synthesis of clean fuels.

The competitive landscape of the SOEC market is marked by a diverse range of players spanning different geographies and business models. In 2024, leading companies include Bloom Energy, Sunfire, Topsoe, and Ceres Power, together accounting for approximately 66% of the global market. Other notable participants such as FuelCell Energy, Elcogen, SolydEra, Swift New Energy, Nexceris, and OxEon Energy collectively contributed the remaining 34%, reflecting a combination of established energy technology firms and emerging specialized SOEC developers. The concentration of revenue among a few large-scale operators underscores the strategic advantage of technological maturity, production capacity, and established customer relationships in

capturing early market share.

Within the application spectrum, Industrial Hydrogen Production represents the largest and most critical segment. In 2024, this segment accounted for USD 108.83 million, and it is forecast to grow to USD 1,209.72 million by 2031, reflecting a CAGR of 37.65%. The dominance of industrial hydrogen production underscores SOEC's essential role in enabling sustainable hydrogen supply chains for chemical manufacturing, refining, and heavy industry. The technology's high efficiency and suitability for coupling with renewable electricity sources make it particularly attractive in regions pursuing large-scale decarbonization targets. Energy and Power applications, representing 21.79% of the market in 2024, are also expected to grow significantly, reaching USD 314.10 million by 2031 at a CAGR of 34.72%. This growth is indicative of the increasing utilization of SOEC in energy storage, grid balancing, and integration with variable renewable energy sources, further broadening the technology's commercial relevance.

The SOEC market is entering a phase of accelerated commercialization and diversification. While standard water electrolysis will remain the backbone of the market, co-electrolysis technologies are expected to capture increasing attention due to their dual environmental and economic benefits. The rapid CAGR across applications and geographies indicates a strong alignment between market demand and technology capability, with SOEC poised to play a pivotal role in decarbonizing industrial processes, providing flexible renewable energy storage solutions, and enabling the large-scale production of green hydrogen and syngas. The combination of strong technological development, supportive policy frameworks, and early mover advantages for leading companies suggests that the market will continue to expand both in size and sophistication.

This report is a detailed and comprehensive analysis for global Solid Oxide Electrolysis Cell (SOEC) Technology market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Solid Oxide Electrolysis Cell (SOEC) Technology market size and forecasts, in consumption value (\$ Million), 2021-2032

*Global Solid Oxide Electrolysis Cell (SOEC) Technology Market 2026 by Company, Regions, Type and Application,...*

Global Solid Oxide Electrolysis Cell (SOEC) Technology market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Solid Oxide Electrolysis Cell (SOEC) Technology market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Solid Oxide Electrolysis Cell (SOEC) Technology market shares of main players, in revenue (\$ Million), 2021-2026

**The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Solid Oxide Electrolysis Cell (SOEC) Technology
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Solid Oxide Electrolysis Cell (SOEC) Technology market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bloom Energy, Sunfire, Topsoe, Ceres Power, Fuel Cell Energy, Elcogen, SolydEra, Swift New Energy, Nexceris, OxEon Energy, etc.

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

Market segmentation

Solid Oxide Electrolysis Cell (SOEC) Technology market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Oxygen Ion Conduction Type (O-SOEC)

Proton Conduction Type (H-SOEC)

## Market segment by Feedstock & Reaction Pathway

Standard Water Electrolysis (SOEC)

Co-electrolysis (H<sub>2</sub>O+CO<sub>2</sub>)

## Market segment by Cell Geometry

Planar

Tubular

## Market segment by Application

Renewable Energy Generation

Industrial Hydrogen Production

CO<sub>2</sub> Emission Reduction

Others

## Market segment by players, this report covers

Bloom Energy

Sunfire

Topsoe

Ceres Power

Fuel Cell Energy

Elcogen

SolydEra

Swift New Energy

Nexceris

OxEon 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 and Rest of Asia-Pacific)

South America (Brazil, 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 Solid Oxide Electrolysis Cell (SOEC) Technology product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Solid Oxide Electrolysis Cell (SOEC) Technology, with revenue, gross margin, and global market share of Solid Oxide Electrolysis Cell (SOEC) Technology from 2021 to 2026.

Chapter 3, the Solid Oxide Electrolysis Cell (SOEC) Technology 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 by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Solid Oxide Electrolysis Cell (SOEC) Technology market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Solid Oxide Electrolysis Cell (SOEC) Technology.

Chapter 13, to describe Solid Oxide Electrolysis Cell (SOEC) Technology research findings and conclusion.

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