

# Global Solid Oxide Electrolyzer Cell (SOEC) Market Growth 2024-2030

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## Abstracts

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A Solid Oxide Electrolysis Cell (SOEC) is basically the corresponding fuel cell (Solid Oxide Fuel Cell – SOFC) run in ‘reverse’. Such a cell operates at relatively high temperatures (700-1000 °C), which makes the efficiency very high. The two electrolysis products, hydrogen and oxygen, are formed on each side of the cell. SOECs may be used for the production of hydrogen from surplus electricity generated by, e.g., wind turbines.

The global Solid Oxide Electrolyzer Cell (SOEC) market size is projected to grow from US\$ 116 million in 2024 to US\$ 2243 million in 2030; it is expected to grow at a CAGR of 63.7% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “Solid Oxide Electrolyzer Cell (SOEC) Industry Forecast” looks at past sales and reviews total world Solid Oxide Electrolyzer Cell (SOEC) sales in 2023, providing a comprehensive analysis by region and market sector of projected Solid Oxide Electrolyzer Cell (SOEC) sales for 2024 through 2030. With Solid Oxide Electrolyzer Cell (SOEC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solid Oxide Electrolyzer Cell (SOEC) industry.

This Insight Report provides a comprehensive analysis of the global Solid Oxide Electrolyzer Cell (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 Solid Oxide Electrolyzer Cell (SOEC) portfolios and capabilities, market entry

strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solid Oxide Electrolyzer Cell (SOEC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solid Oxide Electrolyzer Cell (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 Solid Oxide Electrolyzer Cell (SOEC).

The core global SOEC manufacturers include Sunfire GmbH, Topsoe, Bloom Energy, OxEon Energy, FuelCell Energy and Ceres. The top three manufacturers account for approximately 77% of the global share. North America is the world's largest market, accounting for nearly 52% of the market share.

In terms of product type, oxygen ion conducting occupies a dominant position, accounting for 95% of the market share. At the same time, in terms of application, chemicals and refineries are the largest application fields, accounting for 50% share.

This report presents a comprehensive overview, market shares, and growth opportunities of Solid Oxide Electrolyzer Cell (SOEC) market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Oxygen Ion Conducting

Proton Conducting

#### Segmentation by Application:

Chemicals and Refineries

Power Plants

Steel Plant

Others

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.

Sunfire GmbH

Topsoe

Bloom Energy

OxEon Energy

FuelCell Energy

Ceres

Egen Energy

Key Questions Addressed in this Report

What is the 10-year outlook for the global Solid Oxide Electrolyzer Cell (SOEC) market?

What factors are driving Solid Oxide Electrolyzer Cell (SOEC) market growth, globally and by region?

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

How do Solid Oxide Electrolyzer Cell (SOEC) market opportunities vary by end market size?

How does Solid Oxide Electrolyzer Cell (SOEC) break out by Type, by Application?

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