

# **Global Solid Oxide Electrolysis Cell (SOEC) Technology Market Growth (Status and Outlook) 2024-2030**

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## **Abstracts**

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Solid Oxide Electrolysis Cell (SOEC) technology is an advanced water electrolysis hydrogen production technology, which is the reverse process of Solid Oxide Fuel Cell (SOFC). This technology uses solid oxide ceramics as electrolyte materials to achieve water electrolysis hydrogen production under high temperature conditions, converting electrical energy and thermal energy into chemical energy.

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

LPI (LP Information)' newest research report, the "Solid Oxide Electrolysis Cell (SOEC) Technology Industry Forecast" looks at past sales and reviews total world Solid Oxide Electrolysis Cell (SOEC) Technology sales in 2022, providing a comprehensive analysis by region and market sector of projected Solid Oxide Electrolysis Cell (SOEC) Technology sales for 2023 through 2029. With Solid Oxide Electrolysis Cell (SOEC) Technology sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solid Oxide Electrolysis Cell (SOEC) Technology industry.

This Insight Report provides a comprehensive analysis of the global Solid Oxide Electrolysis Cell (SOEC) Technology landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading

global companies with a focus on Solid Oxide Electrolysis Cell (SOEC) Technology portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solid Oxide Electrolysis Cell (SOEC) Technology market.

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

United States market for Solid Oxide Electrolysis Cell (SOEC) Technology is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Solid Oxide Electrolysis Cell (SOEC) Technology is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Solid Oxide Electrolysis Cell (SOEC) Technology is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Solid Oxide Electrolysis Cell (SOEC) Technology players cover OxEon, Topsoe, Ceres Power, Sunfire, Nexceris, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2023.

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

Segmentation by Type:

Oxygen Ion Conduction Type (O-SOEC)

Proton Conduction Type (H-SOEC)

### Segmentation by Application:

Renewable Energy Generation

Industrial Hydrogen Oroduction

CO2 Emission Reduction

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

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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 analyzing the company's coverage, product portfolio, its market penetration.

OxEon

Topsoe

Ceres Power

Sunfire

Nexceris

Bloom Energy

SolydEra

Yara Growth Ventures

FuelCell Energy

CNFC

Swift New Energy

E-gen Energy

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