+357 96 030922
info@marketpublishers.com

Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Growth (Status and Outlook) 2026-2032

https://marketpublishers.com/r/GCE65803E733EN.html
Date: October 2026
Pages: 96
Price: US$ 3,660.00 (Single User License)
ID: GCE65803E733EN

Abstracts

The global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) market size is predicted to grow from US$ 204 million in 2025 to US$ 1817 million in 2032; it is expected to grow at a CAGR of 37.3% from 2026 to 2032.

Oxygen ion-conducting solid oxide electrolysis (O-SOEC) is an electrochemical device operating at high temperatures of 700–1000°C. Its core component is a dense solid oxide electrolyte capable of conducting oxygen ions (O??). During the electrolysis of water vapor to produce hydrogen, water molecules are reduced at the cathode, generating hydrogen gas and releasing oxygen ions. These oxygen ions, driven by an applied electric field, pass through the electrolyte to the anode, where they lose electrons and recombine to form oxygen gas. This technology significantly enhances the electrochemical reaction kinetics due to its high temperature, thereby drastically reducing energy consumption and achieving higher hydrogen production efficiency. Furthermore, it can be integrated with high-temperature heat sources such as nuclear energy or industrial waste heat, making it a mainstream direction for current commercialization efforts.

United States market for Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

+357 96 030922
info@marketpublishers.com

Europe market for Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) players cover Bloom Energy, Sunfire, Topsoe, Ceres Power, Fuel Cell Energy, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LPI (LP Information)' newest research report, the “Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Industry Forecast” looks at past sales and reviews total world Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) sales in 2025, providing a comprehensive analysis by region and market sector of projected Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) sales for 2026 through 2032. With Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) industry.

This Insight Report provides a comprehensive analysis of the global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-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 analyses the strategies of leading global companies with a focus on Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) market.

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

+357 96 030922
info@marketpublishers.com

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

Market Segmentation

Segmentation by Type:

Standard Water Electrolysis (SOEC)

Co-electrolysis (H?O+CO?)

Segmentation by Operating Temperature:

High Temperature (700-1000°C)

Medium-Low Temperature (500-700°C)

Segmentation by Application:

Industrial Hydrogen Production

Energy and Power

CO2 Emission Reduction

Others

This report also splits the market by region:

Americas

United States

+357 96 030922
info@marketpublishers.com

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

+357 96 030922
info@marketpublishers.com

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.

Bloom Energy

Sunfire

Topsoe

Ceres Power

Fuel Cell Energy

Elcogen

SolydEra

Swift New Energy

Nexceris

OxEon Energy

+357 96 030922
info@marketpublishers.com

Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size (2021-2032)
  2.1.2 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size CAGR by Region (2021 VS 2025 VS 2032)
  2.1.3 World Current & Future Analysis for Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) by Country/Region (2021, 2025 & 2032)
2.2 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Segment by Type
  2.2.1 Standard Water Electrolysis (SOEC)
  2.2.2 Co-electrolysis (H?O+CO?)
  2.2.3 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Type
    2.2.3.1 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size CAGR by Type (2021 VS 2025 VS 2032)
    2.2.3.2 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Type (2021-2026)
2.3 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Segment by Operating Temperature
  2.3.1 High Temperature (700-1000°C)
  2.3.2 Medium-Low Temperature (500-700°C)
  2.3.3 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Operating Temperature
    2.3.3.1 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC)

+357 96 030922
info@marketpublishers.com

Market Size CAGR by Operating Temperature (2021 VS 2025 VS 2032)
2.3.3.2 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Operating Temperature (2021-2026)
2.4 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Segment by Application
2.4.1 Industrial Hydrogen Production
2.4.2 Energy and Power
2.4.3 CO2 Emission Reduction
2.4.4 Others
2.4.5 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Application
2.4.5.1 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size CAGR by Application (2021 VS 2025 VS 2032)
2.4.5.2 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Application (2021-2026)

3 OXYGEN ION-CONDUCTING SOLID OXIDE ELECTROLYSIS TECHNOLOGY (O-SOEC) MARKET SIZE BY PLAYER

3.1 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Player
3.1.1 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue by Player (2021-2026)
3.1.2 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue Market Share by Player (2021-2026)
3.2 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Key Players Head office and Products Offered
3.3 Market Concentration Rate Analysis
3.3.1 Competition Landscape Analysis
3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.4 New Products and Potential Entrants
3.5 Mergers & Acquisitions, Expansion

4 OXYGEN ION-CONDUCTING SOLID OXIDE ELECTROLYSIS TECHNOLOGY (O-SOEC) BY REGION

4.1 Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Region (2021-2026)
4.2 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC)

+357 96 030922
info@marketpublishers.com

Annual Revenue by Country/Region (2021-2026)
4.3 Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth (2021-2026)
4.4 APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth (2021-2026)
4.5 Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth (2021-2026)
4.6 Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Country (2021-2026)
5.2 Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Type (2021-2026)
5.3 Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Region (2021-2026)
6.2 APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Type (2021-2026)
6.3 APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia

7 EUROPE

+357 96 030922
info@marketpublishers.com

7.1 Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Country (2021-2026)
7.2 Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Type (2021-2026)
7.3 Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) by Region (2021-2026)
8.2 Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Type (2021-2026)
8.3 Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 GLOBAL OXYGEN ION-CONDUCTING SOLID OXIDE ELECTROLYSIS TECHNOLOGY (O-SOEC) MARKET FORECAST

10.1 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast by Region (2027-2032)
10.1.1 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC)

+357 96 030922
info@marketpublishers.com

Forecast by Region (2027-2032)
10.1.2 Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.1.3 APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.1.4 Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.1.5 Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.2 Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast by Country (2027-2032)
10.2.1 United States Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.2.2 Canada Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.2.3 Mexico Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.2.4 Brazil Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.3 APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast by Region (2027-2032)
10.3.1 China Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Forecast
10.3.2 Japan Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.3.3 Korea Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.3.4 Southeast Asia Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.3.5 India Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.3.6 Australia Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.4 Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast by Country (2027-2032)
10.4.1 Germany Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.4.2 France Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast

+357 96 030922
info@marketpublishers.com

10.4.3 UK Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.4.4 Italy Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.4.5 Russia Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.5 Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast by Region (2027-2032)
10.5.1 Egypt Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.5.2 South Africa Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.5.3 Israel Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.5.4 Turkey Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast
10.6 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast by Type (2027-2032)
10.7 Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast by Application (2027-2032)
10.7.1 GCC Countries Market Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Forecast

11 KEY PLAYERS ANALYSIS

11.1 Bloom Energy
11.1.1 Bloom Energy Company Information
11.1.2 Bloom Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
11.1.3 Bloom Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue, Gross Margin and Market Share (2021-2026)
11.1.4 Bloom Energy Main Business Overview
11.1.5 Bloom Energy Latest Developments
11.2 Sunfire
11.2.1 Sunfire Company Information
11.2.2 Sunfire Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
11.2.3 Sunfire Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

11.2.4 Sunfire Main Business Overview
11.2.5 Sunfire Latest Developments
11.3 Topsoe
11.3.1 Topsoe Company Information
11.3.2 Topsoe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
11.3.3 Topsoe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue, Gross Margin and Market Share (2021-2026)
11.3.4 Topsoe Main Business Overview
11.3.5 Topsoe Latest Developments
11.4 Ceres Power
11.4.1 Ceres Power Company Information
11.4.2 Ceres Power Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
11.4.3 Ceres Power Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue, Gross Margin and Market Share (2021-2026)
11.4.4 Ceres Power Main Business Overview
11.4.5 Ceres Power Latest Developments
11.5 Fuel Cell Energy
11.5.1 Fuel Cell Energy Company Information
11.5.2 Fuel Cell Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
11.5.3 Fuel Cell Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue, Gross Margin and Market Share (2021-2026)
11.5.4 Fuel Cell Energy Main Business Overview
11.5.5 Fuel Cell Energy Latest Developments
11.6 Elcogen
11.6.1 Elcogen Company Information
11.6.2 Elcogen Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
11.6.3 Elcogen Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue, Gross Margin and Market Share (2021-2026)
11.6.4 Elcogen Main Business Overview
11.6.5 Elcogen Latest Developments
11.7 SolydEra
11.7.1 SolydEra Company Information
11.7.2 SolydEra Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
11.7.3 SolydEra Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-

+357 96 030922
info@marketpublishers.com

SOEC) Revenue, Gross Margin and Market Share (2021-2026)
11.7.4 SolydEra Main Business Overview
11.7.5 SolydEra Latest Developments
11.8 Swift New Energy
11.8.1 Swift New Energy Company Information
11.8.2 Swift New Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
11.8.3 Swift New Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue, Gross Margin and Market Share (2021-2026)
11.8.4 Swift New Energy Main Business Overview
11.8.5 Swift New Energy Latest Developments
11.9 Nexceris
11.9.1 Nexceris Company Information
11.9.2 Nexceris Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
11.9.3 Nexceris Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue, Gross Margin and Market Share (2021-2026)
11.9.4 Nexceris Main Business Overview
11.9.5 Nexceris Latest Developments
11.10 OxEon Energy
11.10.1 OxEon Energy Company Information
11.10.2 OxEon Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
11.10.3 OxEon Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue, Gross Margin and Market Share (2021-2026)
11.10.4 OxEon Energy Main Business Overview
11.10.5 OxEon Energy Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size CAGR by Region (2021 VS 2025 VS 2032) & ($ millions)
Table 2. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Standard Water Electrolysis (SOEC)
Table 4. Major Players of Co-electrolysis (H?O+CO?)
Table 5. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size CAGR by Type (2021 VS 2025 VS 2032) & ($ millions)
Table 6. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Type (2021-2026) & ($ millions)
Table 7. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Type (2021-2026)
Table 8. Major Players of High Temperature (700-1000°C)
Table 9. Major Players of Medium-Low Temperature (500-700°C)
Table 10. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size CAGR by Operating Temperature (2021 VS 2025 VS 2032) & ($ millions)
Table 11. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Operating Temperature (2021-2026) & ($ millions)
Table 12. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Operating Temperature (2021-2026)
Table 13. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size CAGR by Application (2021 VS 2025 VS 2032) & ($ millions)
Table 14. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Application (2021-2026) & ($ millions)
Table 15. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Application (2021-2026)
Table 16. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue by Player (2021-2026) & ($ millions)
Table 17. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue Market Share by Player (2021-2026)
Table 18. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Key Players Head office and Products Offered
Table 19. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 20. New Products and Potential Entrants

+357 96 030922
info@marketpublishers.com

Table 21. Mergers & Acquisitions, Expansion
Table 22. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Region (2021-2026) & ($ millions)
Table 23. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Region (2021-2026)
Table 24. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue by Country/Region (2021-2026) & ($ millions)
Table 25. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue Market Share by Country/Region (2021-2026)
Table 26. Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Country (2021-2026) & ($ millions)
Table 27. Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Country (2021-2026)
Table 28. Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Type (2021-2026) & ($ millions)
Table 29. Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Type (2021-2026)
Table 30. Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Application (2021-2026) & ($ millions)
Table 31. Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Application (2021-2026)
Table 32. APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Region (2021-2026) & ($ millions)
Table 33. APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Region (2021-2026)
Table 34. APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Type (2021-2026) & ($ millions)
Table 35. APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Application (2021-2026) & ($ millions)
Table 36. Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Country (2021-2026) & ($ millions)
Table 37. Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Country (2021-2026)
Table 38. Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Type (2021-2026) & ($ millions)
Table 39. Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Application (2021-2026) & ($ millions)
Table 40. Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Region (2021-2026) & ($ millions)

+357 96 030922
info@marketpublishers.com

Table 41. Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Type (2021-2026) & ($ millions)
Table 42. Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size by Application (2021-2026) & ($ millions)
Table 43. Key Market Drivers & Growth Opportunities of Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC)
Table 44. Key Market Challenges & Risks of Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC)
Table 45. Key Industry Trends of Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC)
Table 46. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Forecast by Region (2027-2032) & ($ millions)
Table 47. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share Forecast by Region (2027-2032)
Table 48. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Forecast by Type (2027-2032) & ($ millions)
Table 49. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Forecast by Application (2027-2032) & ($ millions)
Table 50. Bloom Energy Details, Company Type, Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Area Served and Its Competitors
Table 51. Bloom Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
Table 52. Bloom Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 53. Bloom Energy Main Business
Table 54. Bloom Energy Latest Developments
Table 55. Sunfire Details, Company Type, Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Area Served and Its Competitors
Table 56. Sunfire Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
Table 57. Sunfire Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 58. Sunfire Main Business
Table 59. Sunfire Latest Developments
Table 60. Topsoe Details, Company Type, Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Area Served and Its Competitors
Table 61. Topsoe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
Table 62. Topsoe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-

+357 96 030922
info@marketpublishers.com

SOEC) Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 63. Topsoe Main Business
Table 64. Topsoe Latest Developments
Table 65. Ceres Power Details, Company Type, Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Area Served and Its Competitors
Table 66. Ceres Power Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
Table 67. Ceres Power Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 68. Ceres Power Main Business
Table 69. Ceres Power Latest Developments
Table 70. Fuel Cell Energy Details, Company Type, Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Area Served and Its Competitors
Table 71. Fuel Cell Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
Table 72. Fuel Cell Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 73. Fuel Cell Energy Main Business
Table 74. Fuel Cell Energy Latest Developments
Table 75. Elcogen Details, Company Type, Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Area Served and Its Competitors
Table 76. Elcogen Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
Table 77. Elcogen Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 78. Elcogen Main Business
Table 79. Elcogen Latest Developments
Table 80. SolydEra Details, Company Type, Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Area Served and Its Competitors
Table 81. SolydEra Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
Table 82. SolydEra Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 83. SolydEra Main Business
Table 84. SolydEra Latest Developments
Table 85. Swift New Energy Details, Company Type, Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Area Served and Its Competitors
Table 86. Swift New Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered

+357 96 030922
info@marketpublishers.com

Table 87. Swift New Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 88. Swift New Energy Main Business
Table 89. Swift New Energy Latest Developments
Table 90. Nexceris Details, Company Type, Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Area Served and Its Competitors
Table 91. Nexceris Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
Table 92. Nexceris Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 93. Nexceris Main Business
Table 94. Nexceris Latest Developments
Table 95. OxEon Energy Details, Company Type, Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Area Served and Its Competitors
Table 96. OxEon Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Product Offered
Table 97. OxEon Energy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 98. OxEon Energy Main Business
Table 99. OxEon Energy Latest Developments

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Report Years Considered
Figure 2. Research Objectives
Figure 3. Research Methodology
Figure 4. Research Process and Data Source
Figure 5. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth Rate (2021-2032) ($ millions)
Figure 6. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 7. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Sales Market Share by Country/Region (2025)
Figure 8. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 9. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Type in 2025
Figure 10. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Operating Temperature in 2025
Figure 11. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) in Industrial Hydrogen Production
Figure 12. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market: Industrial Hydrogen Production (2021-2026) & ($ millions)
Figure 13. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) in Energy and Power
Figure 14. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market: Energy and Power (2021-2026) & ($ millions)
Figure 15. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) in CO2 Emission Reduction
Figure 16. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market: CO2 Emission Reduction (2021-2026) & ($ millions)
Figure 17. Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) in Others
Figure 18. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market: Others (2021-2026) & ($ millions)
Figure 19. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Application in 2025

+357 96 030922
info@marketpublishers.com

Figure 20. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Revenue Market Share by Player in 2025
Figure 21. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Region (2021-2026)
Figure 22. Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2021-2026 ($ millions)
Figure 23. APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2021-2026 ($ millions)
Figure 24. Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2021-2026 ($ millions)
Figure 25. Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2021-2026 ($ millions)
Figure 26. Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Value Market Share by Country in 2025
Figure 27. United States Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 28. Canada Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 29. Mexico Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 30. Brazil Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 31. APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Region in 2025
Figure 32. APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Type (2021-2026)
Figure 33. APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Application (2021-2026)
Figure 34. China Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 35. Japan Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 36. South Korea Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 37. Southeast Asia Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 38. India Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 39. Australia Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-

+357 96 030922
info@marketpublishers.com

SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 40. Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Country in 2025
Figure 41. Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Type (2021-2026)
Figure 42. Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Application (2021-2026)
Figure 43. Germany Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 44. France Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 45. UK Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 46. Italy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 47. Russia Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 48. Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Region (2021-2026)
Figure 49. Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Type (2021-2026)
Figure 50. Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share by Application (2021-2026)
Figure 51. Egypt Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 52. South Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 53. Israel Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 54. Turkey Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 55. GCC Countries Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Growth 2021-2026 ($ millions)
Figure 56. Americas Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 57. APAC Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 58. Europe Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)

+357 96 030922
info@marketpublishers.com

Figure 59. Middle East & Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 60. United States Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 61. Canada Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 62. Mexico Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 63. Brazil Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 64. China Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 65. Japan Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 66. Korea Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 67. Southeast Asia Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 68. India Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 69. Australia Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 70. Germany Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 71. France Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 72. UK Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 73. Italy Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 74. Russia Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 75. Egypt Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 76. South Africa Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 77. Israel Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)
Figure 78. Turkey Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-

+357 96 030922
info@marketpublishers.com

SOEC) Market Size 2027-2032 ($ millions)
Figure 79. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share Forecast by Type (2027-2032)
Figure 80. Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size Market Share Forecast by Application (2027-2032)
Figure 81. GCC Countries Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Size 2027-2032 ($ millions)

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Oxygen Ion-conducting Solid Oxide Electrolysis Technology (O-SOEC) Market Growth (Status and Outlook) 2026-2032

Product link: https://marketpublishers.com/r/GCE65803E733EN.html

Price: US$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GCE65803E733EN.html