

Global Solid-State Electrolyte (SSE) Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Solid-State Electrolyte (SSE) market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Global key players of solid-state electrolyte (SSE) include Solid Power, QingTao?KunShan?Energy Development Co.,Ltd., Ganfeng Lithium Group, etc. The top three players hold a share over 70%.

Asia-Pacific is the largest market, has a share about 38%, followed by North America and Europe, with share 30% and 29%, separately.

In terms of product type, oxide electrolytes is the largest segment, occupied for a share of 56%, and in terms of application, electric vehicle has a share about 83 percent.

Solid electrolyte materials are a distinct class of electrolytes utilized in energy storage and conversion systems. Unlike their liquid counterparts, they exist in a solid state and are characterized by their ability to facilitate ionic transfer while maintaining separation between the electrodes, thus preventing short circuits. Solid-state battery electrolyte materials come in different forms, including inorganic (such as ceramic or glass) and organic (polymer-based) solid electrolytes. Critical aspects of solid electrolyte materials include:

High ionic conductivity: Solid electrolytes allow ions to move freely, critical to the battery's performance.

Thermal stability: Unlike liquid electrolytes, solid ones exhibit superior thermal stability, minimizing safety concerns related to overheating.

Enabling technology: They are essential for solid-state batteries, a technology that promises higher energy density and improved safety over traditional lithium-ion batteries. Solid electrolyte materials offer more efficient, safer, and energy-dense storage solutions.

Solid electrolyte materials find applications in areas demanding high-performance energy storage and conversion systems.

Solid State Batteries: These yield higher energy density and improved safety parameters over conventional liquid electrolyte batteries, making them a top choice for electric vehicles (EVs) and grid storage.

Lithium Metal Batteries: Solid electrolyte materials offer lithium metal protection in lithium metal batteries.

Semi-solid Batteries: Solid electrolyte materials can be used in combination with organic polymers, ionic liquids, or gel polymers in semi-solid batteries.

These applications underline the critical role of solid electrolyte materials in advancing future energy storage and conversion technologies.

Solid electrolyte materials offer distinctive benefits:

Safety: They eliminate leakage risks and significantly reduce flammability issues.

Performance: High ionic conductivity enables better battery performance and efficiency.

Energy Density: Solid state battery electrolyte materials with higher energy density make longer-lasting electronic devices and electric vehicles possible.

This report studies the global Solid-State Electrolyte (SSE) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid-State Electrolyte (SSE), and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solid-State Electrolyte (SSE) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solid-State Electrolyte (SSE) total production and demand, 2018-2029, (Kg)

Global Solid-State Electrolyte (SSE) total production value, 2018-2029, (USD Million)

Global Solid-State Electrolyte (SSE) production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Kg)

Global Solid-State Electrolyte (SSE) consumption by region & country, CAGR, 2018-2029 & (Kg)

U.S. VS China: Solid-State Electrolyte (SSE) domestic production, consumption, key domestic manufacturers and share

Global Solid-State Electrolyte (SSE) production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Kg)

Global Solid-State Electrolyte (SSE) production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Kg)

Global Solid-State Electrolyte (SSE) production by Application production, value, CAGR, 2018-2029, (USD Million) & (Kg).

This reports profiles key players in the global Solid-State Electrolyte (SSE) market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include QingTao?KunShan?Energy Development Co.,Ltd., LionGo (Huzhou) New Energy, Ganfeng Lithium Group, POSCO JK Solid Solution, Solid Power and Ampcera Corp, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Solid-State Electrolyte (SSE) market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kg) and average price (US\$/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Solid-State Electrolyte (SSE) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid-State Electrolyte (SSE) Market, Segmentation by Type

Oxide Electrolytes

Sulfide Electrolytes

Polymer Electrolyte

Global Solid-State Electrolyte (SSE) Market, Segmentation by Application

Electric Vehicle

Energy Storage

Other

Companies Profiled:

QingTao?KunShan?Energy Development Co.,Ltd.

LionGo (Huzhou) New Energy

Ganfeng Lithium Group

POSCO JK Solid Solution

Solid Power

Ampcera Corp

Key Questions Answered

1. How big is the global Solid-State Electrolyte (SSE) market?
2. What is the demand of the global Solid-State Electrolyte (SSE) market?
3. What is the year over year growth of the global Solid-State Electrolyte (SSE) market?
4. What is the production and production value of the global Solid-State Electrolyte (SSE) market?
5. Who are the key producers in the global Solid-State Electrolyte (SSE) market?

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