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Global All-Solid-State Battery Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

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Abstracts

Summary

Chemical energy storage, including lead acid batteries, nickel system batteries, and lithium ion batteries (LiBs), is considered to be the most promising energy storage technology for industrialization. Among these, LiBs have many advantages such as light weight, high energy density, high power density, and long life, and they are overwhelmingly preferred by designers for use in portable electronic devices such as cell phones and laptops. However, overcharging or short-circuiting can lead to high temperature and result in fire or explosion due to the presence of flammable organic electrolytes. Fires and explosions of LiBs have been reported throughout the world. The developments of electric vehicles (EVs) and large-scale energy storage devices for new kinds of power stations greatly expand the market for LiBs, meanwhile, stricter safety requirements apply to LiBs. Since large numbers of LiBs are packed together in EVs or power stations, fire or explosion in an LiB could be disastrous. Safety has become the main obstacle for the wide application of LiBs. To meet this issue, All-Solid-State Battery have entered the field. A solid state battery is composed mainly of cathode, anode, and solid electrolyte, as developed during the latter half of the 20th century. All-Solid-State Battery have a simpler structure than the traditional LiBs, and the simplified structure with a solid electrolyte enables higher energy density. Solid electrolytes not only conduct Li+ ions but also serve as the separator, as shown in Figure below. In All-Solid-State Battery, no organic liquid electrolyte, electrolyte salt, separator, or binder is required, which dramatically simplifies the assembly process. The operational principle of All-Solid-State Battery is no different from the traditional LiBs. In the charge process, lithium ions deintercalate from the cathode material and transport to the anode through the electrolyte, while electrons drift to the anode by the external circuit. Lithium ions

combine with electrons to form more complete lithium atoms. The discharge process is just the reverse.

According to APO Research, The global All-Solid-State Battery market is projected to grow from US$ million in 2024 to US$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

The US & Canada market for All-Solid-State Battery is estimated to increase from $ million in 2024 to reach $ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for All-Solid-State Battery is estimated to increase from $ million in 2024 to reach $ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for All-Solid-State Battery is estimated to increase from $ million in 2024 to reach $ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for All-Solid-State Battery is estimated to increase from $ million in 2024 to reach $ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of All-Solid-State Battery include BMW, Hyundai, Dyson, Apple, CATL, Bollor?, Toyota, Panasonic and Jiawei, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

In terms of production side, this report researches the All-Solid-State Battery production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of All-Solid-State Battery by region (region level and country level), by company, by type and by application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for All-Solid-State Battery, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

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This report researches the key producers of All-Solid-State Battery, also provides the consumption of main regions and countries. Of the upcoming market potential for All-Solid-State Battery, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the All-Solid-State Battery sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global All-Solid-State Battery market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by type and by application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for All-Solid-State Battery sales, projected growth trends, production technology, application and end-user industry.

All-Solid-State Battery segment by Company

BMW

Hyundai

Dyson

Apple

CATL

Bollor?

Toyota

Panasonic

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Jiawei

Bosch

Quantum Scape

Ilika

Excellatron Solid State

Cymbet

Solid Power

Mitsui Kinzoku

Samsung

ProLogium

All-Solid-State Battery segment by Type

Polymer-Based All-Solid-State Battery

All-Solid-State Battery with Inorganic Solid Electrolytes

All-Solid-State Battery segment by Application

Consumer Electronics

Electric Vehicle

Aerospace

Others

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All-Solid-State Battery segment by Region

- North America
  - U.S.
  - Canada
- Europe
  - Germany
  - France
  - U.K.
  - Italy
  - Russia
- Asia-Pacific
  - China
  - Japan
  - South Korea
  - India
  - Australia
  - China Taiwan
  - Indonesia
  - Thailand
  - Malaysia

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Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.

2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.

3. To split the breakdown data by regions, type, manufacturers, and Application.

4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.

5. To identify significant trends, drivers, influence factors in global and regions.

6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries

and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global All-Solid-State Battery market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of All-Solid-State Battery and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.

5. This report helps stakeholders to gain insights into which regions to target globally.

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of All-Solid-State Battery.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Provides an overview of the All-Solid-State Battery market, including product definition, global market growth prospects, production value, capacity, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global All-Solid-State Battery industry.

Chapter 3: Detailed analysis of All-Solid-State Battery market competition landscape. Including All-Solid-State Battery manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product

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type, application, merger and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of All-Solid-State Battery by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8: Consumption of All-Solid-State Battery in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights of the report.

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8 GLOBAL ALL-SOLID-STATE BATTERY CONSUMPTION BY REGION

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