

Silicon Anode Battery Marketbased on by Capacity (10,000 mAh), Component (Cathode, Anode, Electrolyte), Application (Aerospace & Defense, Consumer Electronics, Automotive, Medical Devices, Energy) and Region– Global Forecast up to 2030

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Abstracts

A significant amount of secondary sources, directories, and databases were used in this market research study in order to locate and gather data relevant to this technical, financial, and market-oriented analysis of the worldwide Silicon Anode Battery Market . In order to gather and validate crucial qualitative and quantitative data and evaluate market growth prospects, in-depth interviews were carried out with a variety of primary respondents, including important industry participants, subject-matter experts (SMEs), C-level executives of significant market players, and industry consultants, among other experts. To get the ultimate market size, the worldwide Silicon Anode Battery Market 's size—which was approximated using a variety of secondary research techniques—was triangulated with data from primary research.

Consumer electronics demand is driven by growing Asian economies like China, India, and South Korea as well as persistent demand from industrialised nations in North America and Europe. Wearables, tablets, laptops, and smartphones are a handful of the major goods driving the consumer electronics business as a whole. As of right now, the main power source for all consumer electronics gadgets is lithium-ion batteries. But as people become more reliant on smart devices, they are looking for batteries that will last longer and still be efficient.

Improved safety is another area of concern for electronics producers. As a result, the market for silicon batteries is poised for substantial expansion as a result of rising consumer demands. In consumer electronics batteries, the use of silicon anodes

enables designers to create lighter, more compact devices without sacrificing capacity. There have been a number of new items introduced in the wearable electronics market with enhanced functionality.

Silicon Anode Battery Market based on Key Components:

Cathode

Anode

Electrolyte

Others

Silicon Anode Battery Market based on Type:

Cells

Battery Packs

Silicon Anode Battery Market based on Capacity:

\$\$\$3,000 mAh

3,000-10,000 mAh

\$\$\$\$ 10,000 mAh

Silicon Anode Battery Market based on Application:

Consumer Electronics

Automotive

Aerospace & Defense

Medical Devices

Energy

Silicon Anode Battery Market based on Geography:

North America

US

Canada

Europe

Germany

UK

France

Italy

Spain

Rest of Europe (RoE)

Asia Pacific (APAC)

China

Japan

India

Australia

South Korea

Rest of Asia Pacific (RoAPAC)

Latin America (LATAM)

Brazil

Argentina

Rest of South America

Middle East and Africa (MEA)

UAE

Turkey

Saudi Arabia

South Africa

Rest of Middle East & Africa

The market is divided into two segments based on capacity: \$\$\$=3000 mAh/g and \$\$\$\$3000 mAh/g. Over the course of the forecast period, the \$\$\$\$3000 mAh/g segment is anticipated to take the lead in the silicon anode market share. Compared to graphite anodes, these anodes have a capacity that is up to 10 times higher per gramme (mAh/g) and up to 3 times higher in volume (mAh/cc). With a theoretical capacity of 4200 mAh/g, silicon has become one of the most appealing high-capacity anode materials when compared to traditional graphite anodes.

However, alloying with lithium causes a significant volume shift (more than 300%) because of the high specific capacity of silicon. Extreme volume variations have the potential to seriously fracture and collapse the electrode, which would significantly reduce capacity.

The market is segmented into automotive, consumer electronics, energy & power, industrial, and other categories based on the end-use industry. The rapidly expanding automotive industry is significantly increasing silicon anode use. For example, there has

been a noticeable surge in demand for luxury and electric cars since the end of the pandemic. Due to silicon's greater capacity, battery makers for electric vehicles are switching out graphite in the anodes of their batteries for silicon.

With a substantial market share, the electronics sector is anticipated to grow at a substantial rate throughout the course of the projected period. The demand for electronic appliances in the region is expected to rise dramatically due to factors such as an expanding urban population, rising disposable income, a strong supply chain, and increasing internet penetration. Furthermore, it is projected that the pandemic's widespread embrace of digitization would be a major factor in the market's growth.

In 2022, the United States held a greater portion of the market. It is projected that the U.S. market will be significantly driven by the automotive industry. The demand for the product is being effectively fueled by factors like a fully established automobile industry in the nation and greater disposable income. In addition, a large number of the nation's businesses have been engaged in R&D to create superior products, which will increase consumer demand. The growing product demand from Canada's electronics and automotive sectors is responsible for the country's increased silicon anode sales. Growing consumer demand for durable, high-quality goods is projected to propel market expansion in the nation. Furthermore, the nation's market expansion is anticipated to be driven by the expanding need for batteries in electric vehicles.

In this consolidated market, the majority of the market share is held by a small group of well-known suppliers. Amprius Technologies, Enevate Corporation, Sila Nanotechnologies, Inc., Targray Technology International, and SiFAB/Alkegen are the major companies in the market. The majority of businesses make large investments in intensive R&D to reinvent their goods and increase revenue.

Market participants face intense competition from regional and global businesses who possess vast supply chains, regulatory expertise, and wide distribution networks. In order to increase their market share in their current areas, numerous businesses are also entering into agreements for acquisitions and strategic alliances with other industry titans.

This report illustrates the most vital attributes of the Silicon Anode Battery Market , which are driving and providing opportunities.

This research gives an in-depth analysis of the Silicon Anode Battery Market growth on the basis of several segments in the market.

This report presents the predictions of the past and present trends of the Silicon Anode Battery Market .

This study also presents the competitive analysis, such as key strategies and capabilities of major players of the Silicon Anode Battery Market .

Contents

1. EXECUTIVE SUMMARY

2. INDUSTRY OUTLOOK

- 2.1. Industry Overview
- 2.2. Industry Trends

3. MARKET SNAPSHOT

- 3.1. Market Definition
- 3.2. Market Outlook
 - 3.2.1. Porter Five Forces
- 3.3. Related Markets

4. MARKET CHARACTERISTICS

- 4.1. Market Overview
- 4.2. Market Segmentation
- 4.3. Market Dynamics
 - 4.3.1. Drivers
 - 4.3.2. Restraints
 - 4.3.3. Opportunities
- 4.4. DRO - Impact Analysis

5. KEY COMPONENTS: MARKET SIZE & ANALYSIS

- 5.1. Overview
- 5.2. Cathode
- 5.3. Anode
- 5.4. Electrolyte
- 5.5. Others

6. TYPE: MARKET SIZE & ANALYSIS

- 6.1. Overview
- 6.2. Cells

6.3. Battery Packs

7. CAPACITY: MARKET SIZE & ANALYSIS

7.1. Overview

7.2. 10,000 mAh

8. APPLICATION: MARKET SIZE & ANALYSIS

8.1. Overview

8.2. Consumer Electronics

8.3. Automotive

8.4. Aerospace & Defence

8.5. Medical Devices

8.6. Energy

9. GEOGRAPHY: MARKET SIZE & ANALYSIS

9.1. Overview

9.2. North America (U.S., Mexico, Canada)

9.3. Europe (France, Germany, UK, Italy, Netherlands, Spain, Russia, Rest of Europe)

9.4. Asia Pacific (Japan, China, India, Australia, South East Asia, Rest of APAC)

9.5. Latin America (Brazil, Argentina)

9.6. Middle East & Africa (Saudi Arabia, UAE, South Africa, Rest of Middle East and Africa)

10. COMPETITIVE LANDSCAPE

10.1. Competitor Comparison Analysis

10.2. Market Developments

10.2.1. Mergers and Acquisitions, Legal, Awards, Partnerships

10.2.2. Product Launches and execution

11. VENDOR PROFILES

11.1. Panasonic Holdings Corporation (Japan)

11.1.1. Overview

11.1.2. Financial Overview

11.1.3. Product Offerings

- 11.1.4. Developments
- 11.1.5. Business Strategy
- 11.2. SAMSUNG SDI CO., LTD. (South Korea)
 - 11.2.1. Overview
 - 11.2.2. Financial Overview
 - 11.2.3. Product Offerings
 - 11.2.4. Developments
 - 11.2.5. Business Strategy
- 11.3. LG Chem. (South Korea)
 - 11.3.1. Overview
 - 11.3.2. Financial Overview
 - 11.3.3. Product Offerings
 - 11.3.4. Developments
 - 11.3.5. Business Strategy
- 11.4. NEXEON LTD. (U.K.)
 - 11.4.1. Overview
 - 11.4.2. Financial Overview
 - 11.4.3. Product Offerings
 - 11.4.4. Developments
 - 11.4.5. Business Strategy
- 11.5. Los Angeles Cleantech Incubator (U.S.)
 - 11.5.1. Overview
 - 11.5.2. Financial Overview
 - 11.5.3. Product Offerings
 - 11.5.4. Developments
 - 11.5.5. Business Strategy
- 11.6. Enevate Corporation (U.S.)
 - 11.6.1. Overview
 - 11.6.2. Financial Overview
 - 11.6.3. Product Offerings
 - 11.6.4. Developments
 - 11.6.5. Business Strategy
- 11.7. Zeptor Corporation (U.S.)
 - 11.7.1. Overview
 - 11.7.2. Financial Overview
 - 11.7.3. Product Offerings
 - 11.7.4. Developments
 - 11.7.5. Business Strategy
- 11.8. CONNEXX SYSTEMS Corp. (Japan)

- 11.8.1. Overview
- 11.8.2. Financial Overview
- 11.8.3. Product Offerings
- 11.8.4. Developments
- 11.8.5. Business Strategy
- 11.9. XGSciences (U.S.)
 - 11.9.1. Overview
 - 11.9.2. Financial Overview
 - 11.9.3. Product Offerings
 - 11.9.4. Developments
 - 11.9.5. Business Strategy
- 11.10. California Lithium Battery (U.S.)
 - 11.10.1. Overview
 - 11.10.2. Financial Overview
 - 11.10.3. Product Offerings
 - 11.10.4. Developments
 - 11.10.5. Business Strategy

12. ANALYST OPINION

13. ANNEXURE

- 13.1. Report Scope
- 13.2. Market Definitions
- 13.3. Research Methodology
 - 13.3.1. Data Collation and In-house Estimation
 - 13.3.2. Market Triangulation
 - 13.3.3. Forecasting
- 13.4. Report Assumptions
- 13.5. Declarations
- 13.6. Stakeholders
- 13.7. Abbreviations

Tables

TABLE 1. SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 2. SILICON ANODE BATTERY MARKET VALUE FOR CATHODE, BY GEOGRAPHY , 2021-2030 (USD BILLION)

TABLE 3. SILICON ANODE BATTERY MARKET VALUE FOR ANODE, BY

GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 4. SILICON ANODE BATTERY MARKET VALUE FOR ELECTROLYTE, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 5. SILICON ANODE BATTERY MARKET VALUE FOR OTHERS, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 6. SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 7. SILICON ANODE BATTERY MARKET VALUE FOR CELLS, 2021-2030 (USD BILLION)

TABLE 8. SILICON ANODE BATTERY MARKET VALUE FOR BATTERY PACKS, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 9. SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 10. SILICON ANODE BATTERY MARKET VALUE FOR 10,000 MAH, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 13. SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 14. SILICON ANODE BATTERY MARKET VALUE FOR CONSUMER ELECTRONICS, 2021-2030 (USD BILLION)

TABLE 15. SILICON ANODE BATTERY MARKET VALUE FOR AUTOMOTIVE, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 16. SILICON ANODE BATTERY MARKET VALUE FOR AEROSPACE & DEFENSE, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 17. SILICON ANODE BATTERY MARKET VALUE FOR MEDICAL DEVICES, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 18. SILICON ANODE BATTERY MARKET VALUE FOR ENERGY, BY GEOGRAPHY, 2021-2030 (USD BILLION)

TABLE 19. NORTH AMERICA SILICON ANODE BATTERY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)

TABLE 20. NORTH AMERICA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 21. NORTH AMERICA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 22. NORTH AMERICA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 23. U.S SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 24. U.S SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 25. U.S SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 26. CANADA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 27. CANADA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 28. CANADA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 29. MEXICO SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 30. MEXICO SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 31. MEXICO SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 32. EUROPE SILICON ANODE BATTERY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)

TABLE 33. EUROPE SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 34. EUROPE SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 35. GERMANY SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 36. GERMANY SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 37. GERMANY SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 38. U.K SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 39. U.K SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 40. U.K SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 41. FRANCE SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 42. FRANCE SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 43. FRANCE SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 44. ITALY SILICON ANODE BATTERY MARKET VALUE, BY KEY

COMPONENTS, 2021-2030 (USD BILLION)

TABLE 45. ITALY SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 46. ITALY SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 47. SPAIN SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 48. SPAIN SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 49. SPAIN SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 50. ROE SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 51. ROE SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 52. ROE SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 53. ASIA PACIFIC SILICON ANODE BATTERY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)

TABLE 54. ASIA PACIFIC SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 55. ASIA PACIFIC SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 56. ASIA PACIFIC SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 57. CHINA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 58. CHINA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 59. CHINA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 60. INDIA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 61. INDIA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 62. INDIA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 63. JAPAN SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 64. JAPAN SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 65. JAPAN SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 66. REST OF APAC SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 67. REST OF APAC SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 68. REST OF APAC SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 69. LATIN AMERICA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 70. LATIN AMERICA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 71. LATIN AMERICA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 72. BRAZIL SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 73. BRAZIL SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 74. BRAZIL SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 75. ARGENTINA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 76. ARGENTINA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 77. ARGENTINA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 78. MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 79. MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 80. MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 81. SAUDI ARABIA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 82. SAUDI ARABIA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 83. SAUDI ARABIA SILICON ANODE BATTERY MARKET VALUE, BY

APPLICATION, 2021-2030 (USD BILLION)

TABLE 84. UAE SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 85. UAE SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 86. UAE SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 87. REST OF MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

TABLE 88. REST OF MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

TABLE 89. REST OF MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

TABLE 90. PANASONIC HOLDINGS CORPORATION (JAPAN): FINANCIALS

TABLE 91. PANASONIC HOLDINGS CORPORATION (JAPAN): PRODUCTS & SERVICES

TABLE 92. PANASONIC HOLDINGS CORPORATION (JAPAN): RECENT DEVELOPMENTS

TABLE 93. SAMSUNG SDI CO., LTD. (SOUTH KOREA): FINANCIALS

TABLE 94. SAMSUNG SDI CO., LTD. (SOUTH KOREA): PRODUCTS & SERVICES

TABLE 95. SAMSUNG SDI CO., LTD. (SOUTH KOREA): RECENT DEVELOPMENTS

TABLE 96. LG CHEM. (SOUTH KOREA): FINANCIALS

TABLE 97. LG CHEM. (SOUTH KOREA): PRODUCTS & SERVICES

TABLE 98. LG CHEM. (SOUTH KOREA): RECENT DEVELOPMENTS

TABLE 99. NEXEON LTD. (U.K.): FINANCIALS

TABLE 100. NEXEON LTD. (U.K.): PRODUCTS & SERVICES

TABLE 101. NEXEON LTD. (U.K.): RECENT DEVELOPMENTS

TABLE 102. LOS ANGELES CLEANTECH INCUBATOR (U.S.): FINANCIALS

TABLE 103. LOS ANGELES CLEANTECH INCUBATOR (U.S.): PRODUCTS & SERVICES

TABLE 104. LOS ANGELES CLEANTECH INCUBATOR (U.S.): RECENT DEVELOPMENTS

TABLE 105. ENEVATE CORPORATION (U.S.): FINANCIALS

TABLE 106. ENEVATE CORPORATION (U.S.): PRODUCTS & SERVICES

TABLE 107. ENEVATE CORPORATION (U.S.): RECENT DEVELOPMENTS

TABLE 108. ZEPTOR CORPORATION (U.S.): FINANCIALS

TABLE 109. ZEPTOR CORPORATION (U.S.): PRODUCTS & SERVICES

TABLE 110. ZEPTOR CORPORATION (U.S.): DEVELOPMENTS

TABLE 111. CONNEXX SYSTEMS CORP. (JAPAN): FINANCIALS

TABLE 112. CONNEXX SYSTEMS CORP. (JAPAN): PRODUCTS & SERVICES

TABLE 113. CONNEXX SYSTEMS CORP. (JAPAN): RECENT DEVELOPMENTS

TABLE 114. XGSCIENCES (U.S.): FINANCIALS

TABLE 115. XGSCIENCES (U.S.): PRODUCTS & SERVICES

TABLE 116. XGSCIENCES (U.S.): RECENT DEVELOPMENTS

TABLE 117. CALIFORNIA LITHIUM BATTERY (U.S.): FINANCIALS

TABLE 118. CALIFORNIA LITHIUM BATTERY (U.S.): PRODUCTS & SERVICES

TABLE 119. CALIFORNIA LITHIUM BATTERY (U.S.): RECENT DEVELOPMENTS

Charts

CHART. 1. SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 2. SILICON ANODE BATTERY MARKET VALUE FOR CATHODE, BY GEOGRAPHY , 2021-2030 (USD BILLION)

CHART. 3. SILICON ANODE BATTERY MARKET VALUE FOR ANODE, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 4. SILICON ANODE BATTERY MARKET VALUE FOR ELECTROLYTE, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 5. SILICON ANODE BATTERY MARKET VALUE FOR OTHERS, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 6. SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 7. SILICON ANODE BATTERY MARKET VALUE FOR CELLS, 2021-2030 (USD BILLION)

CHART. 8. SILICON ANODE BATTERY MARKET VALUE FOR BATTERY PACKS, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 9. SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 10. SILICON ANODE BATTERY MARKET VALUE FOR 10,000 MAH, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 13. SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 14. SILICON ANODE BATTERY MARKET VALUE FOR CONSUMER ELECTRONICS, 2021-2030 (USD BILLION)

CHART. 15. SILICON ANODE BATTERY MARKET VALUE FOR AUTOMOTIVE, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 16. SILICON ANODE BATTERY MARKET VALUE FOR AEROSPACE & DEFENSE, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 17. SILICON ANODE BATTERY MARKET VALUE FOR MEDICAL DEVICES, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 18. SILICON ANODE BATTERY MARKET VALUE FOR ENERGY, BY GEOGRAPHY, 2021-2030 (USD BILLION)

CHART. 19. NORTH AMERICA SILICON ANODE BATTERY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)

CHART. 20. NORTH AMERICA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 21. NORTH AMERICA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 22. NORTH AMERICA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 23. U.S SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 24. U.S SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 25. U.S SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 26. CANADA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 27. CANADA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 28. CANADA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 29. MEXICO SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 30. MEXICO SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 31. MEXICO SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 32. EUROPE SILICON ANODE BATTERY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)

CHART. 33. EUROPE SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 34. EUROPE SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 35. GERMANY SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 36. GERMANY SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 37. GERMANY SILICON ANODE BATTERY MARKET VALUE, BY

APPLICATION, 2021-2030 (USD BILLION)

CHART. 38. U.K SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 39. U.K SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 40. U.K SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 41. FRANCE SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 42. FRANCE SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 43. FRANCE SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 44. ITALY SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 45. ITALY SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 46. ITALY SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 47. SPAIN SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 48. SPAIN SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 49. SPAIN SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 50. ROE SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 51. ROE SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 52. ROE SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 53. ASIA PACIFIC SILICON ANODE BATTERY MARKET VALUE, BY COUNTRY, 2021-2030 (USD BILLION)

CHART. 54. ASIA PACIFIC SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 55. ASIA PACIFIC SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 56. ASIA PACIFIC SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

- CHART. 57. CHINA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)
- CHART. 58. CHINA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)
- CHART. 59. CHINA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)
- CHART. 60. INDIA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)
- CHART. 61. INDIA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)
- CHART. 62. INDIA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)
- CHART. 63. JAPAN SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)
- CHART. 64. JAPAN SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)
- CHART. 65. JAPAN SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)
- CHART. 66. REST OF APAC SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)
- CHART. 67. REST OF APAC SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)
- CHART. 68. REST OF APAC SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)
- CHART. 69. LATIN AMERICA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)
- CHART. 70. LATIN AMERICA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)
- CHART. 71. LATIN AMERICA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)
- CHART. 72. BRAZIL SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)
- CHART. 73. BRAZIL SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)
- CHART. 74. BRAZIL SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)
- CHART. 75. ARGENTINA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)
- CHART. 76. ARGENTINA SILICON ANODE BATTERY MARKET VALUE, BY

CAPACITY, 2021-2030 (USD BILLION)

CHART. 77. ARGENTINA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 78. MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 79. MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 80. MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 81. SAUDI ARABIA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 82. SAUDI ARABIA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 83. SAUDI ARABIA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 84. UAE SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 85. UAE SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 86. UAE SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 87. REST OF MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY KEY COMPONENTS, 2021-2030 (USD BILLION)

CHART. 88. REST OF MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY CAPACITY, 2021-2030 (USD BILLION)

CHART. 89. REST OF MIDDLE EAST AND AFRICA SILICON ANODE BATTERY MARKET VALUE, BY APPLICATION, 2021-2030 (USD BILLION)

CHART. 90. PANASONIC HOLDINGS CORPORATION (JAPAN): FINANCIALS

CHART. 91. PANASONIC HOLDINGS CORPORATION (JAPAN): PRODUCTS & SERVICES

CHART. 92. PANASONIC HOLDINGS CORPORATION (JAPAN): RECENT DEVELOPMENTS

CHART. 93. SAMSUNG SDI CO., LTD. (SOUTH KOREA): FINANCIALS

CHART. 94. SAMSUNG SDI CO., LTD. (SOUTH KOREA): PRODUCTS & SERVICES

CHART. 95. SAMSUNG SDI CO., LTD. (SOUTH KOREA): RECENT DEVELOPMENTS

CHART. 96. LG CHEM. (SOUTH KOREA): FINANCIALS

CHART. 97. LG CHEM. (SOUTH KOREA): PRODUCTS & SERVICES

CHART. 98. LG CHEM. (SOUTH KOREA): RECENT DEVELOPMENTS

CHART. 99. NEXEON LTD. (U.K.): FINANCIALS

- CHART. 100. NEXEON LTD. (U.K.): PRODUCTS & SERVICES
- CHART. 101. NEXEON LTD. (U.K.): RECENT DEVELOPMENTS
- CHART. 102. LOS ANGELES CLEANTECH INCUBATOR (U.S.): FINANCIALS
- CHART. 103. LOS ANGELES CLEANTECH INCUBATOR (U.S.): PRODUCTS & SERVICES
- CHART. 104. LOS ANGELES CLEANTECH INCUBATOR (U.S.): RECENT DEVELOPMENTS
- CHART. 105. ENEVATE CORPORATION (U.S.): FINANCIALS
- CHART. 106. ENEVATE CORPORATION (U.S.): PRODUCTS & SERVICES
- CHART. 107. ENEVATE CORPORATION (U.S.): RECENT DEVELOPMENTS
- CHART. 108. ZEPTOR CORPORATION (U.S.): FINANCIALS
- CHART. 109. ZEPTOR CORPORATION (U.S.): PRODUCTS & SERVICES
- CHART. 110. ZEPTOR CORPORATION (U.S.): DEVELOPMENTS
- CHART. 111. CONNEXX SYSTEMS CORP. (JAPAN): FINANCIALS
- CHART. 112. CONNEXX SYSTEMS CORP. (JAPAN): PRODUCTS & SERVICES
- CHART. 113. CONNEXX SYSTEMS CORP. (JAPAN): RECENT DEVELOPMENTS
- CHART. 114. XGSCIENCES (U.S.): FINANCIALS
- CHART. 115. XGSCIENCES (U.S.): PRODUCTS & SERVICES
- CHART. 116. XGSCIENCES (U.S.): RECENT DEVELOPMENTS
- CHART. 117. CALIFORNIA LITHIUM BATTERY (U.S.): FINANCIALS
- CHART. 118. CALIFORNIA LITHIUM BATTERY (U.S.): PRODUCTS & SERVICES
- CHART. 119. CALIFORNIA LITHIUM BATTERY (U.S.): RECENT DEVELOPMENTS

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