

Sodium-Ion Battery Market by Battery Type (Sodium-Sulfur, and Sodium-Salt), Technology Type (Aqueous and Non-Aqueous), End-Use (Energy Storage, Automotive, and Industrial), and Region (Asia Pacific, Europe, and North America) - Global Forecast to 2028

<https://marketpublishers.com/r/S56683D16F10EN.html>

Date: April 2024

Pages: 146

Price: US\$ 4,950.00 (Single User License)

ID: S56683D16F10EN

Abstracts

The global Sodium Ion Battery Market is projected from USD 0.5 billion in 2023 to USD 1.2 billion by 2028, at a CAGR of 21.5% during the forecast period. The relatively improved safety characteristics in comparison to the lithium-ion batteries is one of the key drivers that is boosting the sodium ion battery market.

“Aqueous sodium ion battery segment, by technology, is estimated to account for the second largest share during the forecast period”.

The aqueous sodium ion battery segment is projected to secure the second-largest share in the forecast period. Despite having a lower energy density than non-aqueous choices, aqueous sodium-ion battery technology will account for the second highest share in the industry. This is because they have a strong set of benefits, including the fact that they are cheaper to create and safer by nature because they rely on water-based electrolytes.

. “Automotive, by application, is estimated to account for the fastest segment during the forecast period”.

The automotive sector is rapidly adopting sodium-ion batteries as a sustainable energy storage solution, driven by the need for cleaner and more efficient transportation. These batteries offer several advantages, including high energy density, fast charging capabilities, and improved safety compared to traditional lithium-ion batteries. As the

automotive industry strives to meet stringent emission regulations and consumer demand for electric vehicles (EVs) grows, the demand for sodium-ion batteries in this segment is expected to surge. Manufacturers are focusing on developing advanced materials and technologies to enhance the performance and cost-effectiveness of sodium-ion batteries.

Profile break-up of primary participants for the report:

By Company Type: Tier 1 – 40%, Tier 2 – 20%, and Tier 3 – 40%

By Designation: C-level– 20%, Director Level– 50%, and Others – 30%

By Region: North America – 20%, Europe – 10%, Asia Pacific – 40%, Rest of the world -30 %

Faradion (UK), Contemporary Amperex Technology Co., Ltd. (China), Tiamet Energy (France), HiNa Battery Technology Co., Ltd. (China) and Jiangsu Zoolnasm Energy Technology Co Ltd (China) are some of the major players operating in the sodium ion battery market. These players have adopted strategies such as acquisitions, expansions, partnerships, and agreements in order to increase their market share business revenue.

Research Coverage:

The report defines, segments, and projects the sodium ion battery market based on sodium ion battery type, technology type, end-use, and region. It provides detailed information regarding the major factors influencing the growth of the market, such as drivers, restraints, opportunities, and challenges. It strategically profiles, sodium ion battery manufacturers and comprehensively analyses their market shares and core competencies as well as tracks and analyzes competitive developments, such as expansions, joint ventures, agreements, and acquisitions, undertaken by them in the market.

Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants in the market by providing them the closest approximations of revenue numbers of the sodium ion battery market and its segments. This report is also expected to help stakeholders

obtain an improved understanding of the competitive landscape of the market, gain insights to improve the position of their businesses, and make suitable go-to-market strategies. It also enables stakeholders to understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (cost effectiveness and improved safety characteristics in comparison to lithium-ion batteries), restraints (lower energy density and limited lifecycle in comparison to lithium-ion batteries), opportunities (strong supply chain due to abundant sodium availability and advancements in innovation and technology in sodium ion battery market), and challenges (availability of high performance materials for sodium ion batteries, and market competition and established infrastructure) influencing the growth of the sodium ion battery market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities in the sodium ion battery market.

Market Development: Comprehensive information about lucrative markets – the report analyses the sodium ion battery market across varied regions.

Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments, and investments in the sodium ion battery market.

Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players such as Faradion (UK), Contemporary Amperex Technology Co., Ltd. (China), Tiamet Energy (France), HiNa Battery Technology Co., Ltd. (China), Jiangsu Zoolnasm Energy Technology Co Ltd (China), NGK Insulators Ltd (Japan), Li-FUN Technology Corporation Limited (China), Zhejiang Natrium Energy Co., Ltd. (China), Natron Energy, Inc. (US), Jiangsu Transimage Sodium-Ion Battery Technology Co., Ltd. (China) and others in the sodium ion battery market.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 COMPETITIVE INTELLIGENCE

1.3 MARKET DEFINITION

1.4 STUDY SCOPE

1.4.1 INCLUSIONS AND EXCLUSIONS

TABLE 1 SODIUM-ION BATTERY MARKET: INCLUSIONS AND EXCLUSIONS

1.4.2 MARKET SEGMENTATION

FIGURE 1 SODIUM-ION BATTERY MARKET: MARKET SEGMENTATION

1.4.3 REGIONS COVERED

1.4.4 YEARS CONSIDERED

1.5 CURRENCY CONSIDERED

1.6 UNITS CONSIDERED

1.7 RESEARCH LIMITATIONS

1.8 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 SODIUM-ION BATTERY MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Key industry insights

2.1.2.3 Breakdown of primary interviews

2.2 MATRIX FOR DEMAND-SIDE ANALYSIS

FIGURE 3 MATRIX ASSESSING DEMAND FOR SODIUM-ION BATTERIES

2.3 MARKET SIZE ESTIMATION

2.3.1 BOTTOM-UP APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.3.2 TOP-DOWN APPROACH

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 6 METHODOLOGY FOR SUPPLY-SIDE SIZING OF SODIUM-ION BATTERY MARKET (1/2)

FIGURE 7 METHODOLOGY FOR SUPPLY-SIDE SIZING OF SODIUM-ION BATTERY

MARKET (2/2)

2.3.2.1 Calculations for supply-side analysis

2.4 GROWTH FORECAST

2.5 DATA TRIANGULATION

FIGURE 8 SODIUM-ION BATTERY MARKET: DATA TRIANGULATION

2.6 IMPACT OF RECESSION

2.7 RESEARCH ASSUMPTIONS

2.8 RESEARCH LIMITATIONS

2.9 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

TABLE 2 SODIUM-ION BATTERY MARKET SNAPSHOT: 2023 VS. 2028

FIGURE 9 ENERGY STORAGE SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD

FIGURE 10 NONAQUEOUS TECHNOLOGY TO ACCOUNT FOR LARGER MARKET SHARE DURING FORECAST PERIOD

FIGURE 11 ASIA PACIFIC DOMINATED SODIUM-ION BATTERY MARKET IN 2023

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN SODIUM-ION BATTERY MARKET

FIGURE 12 SODIUM-ION BATTERY MARKET TO WITNESS SIGNIFICANT GROWTH BETWEEN 2023 AND 2028

4.2 SODIUM-ION BATTERY MARKET, BY REGION

FIGURE 13 ASIA PACIFIC TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 14 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN SODIUM-ION BATTERY MARKET

5.2.1 DRIVERS

5.2.1.1 Need for cost-effective alternative to lithium-ion batteries

5.2.1.2 Increasing demand for sustainable energy storage solutions

5.2.2 RESTRAINTS

5.2.2.1 Lower energy density compared to lithium-ion batteries

5.2.2.2 Limited cycle life of sodium-ion batteries

5.2.3 OPPORTUNITIES

5.2.3.1 Abundance of sodium resources

5.2.3.2 Innovation and technological advances in sodium-ion batteries

5.2.4 CHALLENGES

5.2.4.1 Limited availability of high-performance materials for sodium-ion batteries

5.2.4.2 Wide application of lithium-ion batteries in various industries

5.3 PORTER'S FIVE FORCES ANALYSIS

FIGURE 15 PORTER'S FIVE FORCES ANALYSIS: SODIUM-ION BATTERY MARKET

TABLE 3 SODIUM-ION BATTERY MARKET: PORTER'S FIVE FORCES ANALYSIS

5.3.1 BARGAINING POWER OF SUPPLIERS

5.3.2 BARGAINING POWER OF BUYERS

5.3.3 THREAT OF NEW ENTRANTS

5.3.4 THREAT OF SUBSTITUTES

5.3.5 INTENSITY OF COMPETITIVE RIVALRY

5.4 SUPPLY CHAIN ANALYSIS

FIGURE 16 SODIUM-ION BATTERY MARKET: SUPPLY CHAIN ANALYSIS

5.5 ECOSYSTEM

FIGURE 17 SODIUM-ION BATTERY MARKET: ECOSYSTEM

TABLE 4 SODIUM-ION BATTERY MARKET: ROLE IN ECOSYSTEM

5.6 REGULATORY LANDSCAPE

5.6.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 5 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 6 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 7 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.7 TECHNOLOGY ANALYSIS

5.7.1 KEY TECHNOLOGY

5.7.1.1 Alternative anode material

5.7.2 ADJACENT TECHNOLOGY

5.7.2.1 Nanostructured electrodes

5.8 KEY CONFERENCES AND EVENTS IN 2024–2025

TABLE 8 SODIUM-ION BATTERY MARKET: KEY CONFERENCES AND EVENTS (2024–2025)

5.9 TRADE ANALYSIS

5.9.1 IMPORT SCENARIO

TABLE 9 IMPORT DATA OF SODIUM (USD THOUSAND)

5.9.2 EXPORT DATA

TABLE 10 EXPORT DATA OF SODIUM (USD THOUSAND)

5.10 PRICING ANALYSIS

5.10.1 AVERAGE SELLING PRICE TREND, BY REGION

FIGURE 18 AVERAGE SELLING PRICE TREND, BY REGION

5.10.2 AVERAGE SELLING PRICE, BY TECHNOLOGY

FIGURE 19 AVERAGE SELLING PRICE OF SODIUM-ION BATTERY, BY TECHNOLOGY

5.11 KEY STAKEHOLDERS AND BUYING CRITERIA

5.11.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 20 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 END-USE INDUSTRIES

TABLE 11 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 END-USE INDUSTRIES (%)

5.11.2 BUYING CRITERIA

FIGURE 21 KEY BUYING CRITERIA FOR TOP 3 END-USE INDUSTRIES

TABLE 12 KEY BUYING CRITERIA FOR TOP 3 END-USE INDUSTRIES

5.12 PATENT ANALYSIS

5.12.1 METHODOLOGY

FIGURE 22 COMPANIES WITH HIGHEST PATENT APPLICATIONS FOR SODIUM-ION BATTERIES

5.12.2 KEY PATENTS

5.13 INVESTMENT & FUNDING SCENARIO

FIGURE 23 INVESTMENT & FUNDING OF STARTUPS/SMES FOR SODIUM-ION BATTERY MARKET

6 SODIUM-ION BATTERY, BY BATTERY TYPE

6.1 INTRODUCTION

6.2 SODIUM SULFUR BATTERIES

6.3 SODIUM SALT BATTERIES

6.4 SODIUM AIR BATTERIES

6.5 OTHER BATTERY TYPES

7 SODIUM-ION BATTERY MARKET, BY TECHNOLOGY

7.1 INTRODUCTION

FIGURE 24 NONAQUEOUS SEGMENT TO LEAD SODIUM-ION BATTERY MARKET DURING FORECAST PERIOD

TABLE 13 SODIUM-ION BATTERY MARKET, BY TECHNOLOGY TYPE, 2023–2028 (USD MILLION)

7.2 AQUEOUS

7.2.1 WIDE APPLICATIONS IN STATIONARY ENERGY STORAGE SYSTEMS TO DRIVE MARKET

7.3 NONAQUEOUS

7.3.1 INCREASING DEMAND IN GRID-LEVEL STORAGE TO BOOST MARKET

8 SODIUM-ION BATTERY MARKET, BY END-USE INDUSTRY

8.1 INTRODUCTION

FIGURE 25 ENERGY STORAGE SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

TABLE 14 SODIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

8.2 ENERGY STORAGE

8.2.1 INCREASING DEMAND IN GRID-LEVEL STORAGE SYSTEMS TO DRIVE MARKET

TABLE 15 ENERGY STORAGE: SODIUM-ION BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

8.3 AUTOMOTIVE

8.3.1 WIDE ADOPTION OF SODIUM-ION BATTERIES IN HYBRID ELECTRIC VEHICLES TO FUEL DEMAND

TABLE 16 AUTOMOTIVE: SODIUM-ION BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

8.4 INDUSTRIAL

8.4.1 RISING NEED IN INDUSTRIAL SETTINGS AND TELECOMMUNICATION TOWERS TO DRIVE DEMAND

TABLE 17 INDUSTRIAL: SODIUM-ION BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

8.5 OTHER END-USE INDUSTRIES

TABLE 18 OTHER END-USE INDUSTRIES: SODIUM-ION BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

9 SODIUM-ION BATTERY MARKET, BY REGION

9.1 INTRODUCTION

FIGURE 26 ASIA PACIFIC TO BE LARGEST MARKET DURING FORECAST PERIOD

TABLE 19 SODIUM-ION BATTERY MARKET, BY REGION, 2023–2028 (KILOTON)

TABLE 20 SODIUM-ION BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

9.2 ASIA PACIFIC

9.2.1 RECESSION IMPACT

FIGURE 27 ASIA PACIFIC: SODIUM-ION BATTERY MARKET SNAPSHOT

TABLE 21 ASIA PACIFIC: SODIUM-ION BATTERY MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 22 ASIA PACIFIC: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.2.2 CHINA

9.2.2.1 Rising demand for electric vehicles to drive market

TABLE 23 CHINA: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.2.3 SOUTH KOREA

9.2.3.1 Pressing need for energy storage to drive market

TABLE 24 SOUTH KOREA: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.2.4 JAPAN

9.2.4.1 Increasing demand in industrial and EV sectors to drive market

TABLE 25 JAPAN: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.2.5 AUSTRALIA

9.2.5.1 Rising demand for renewable energy sources to drive market

TABLE 26 AUSTRALIA: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.2.6 REST OF ASIA PACIFIC

TABLE 27 REST OF ASIA PACIFIC: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.3 NORTH AMERICA

9.3.1 RECESSION IMPACT

FIGURE 28 NORTH AMERICA: SODIUM-ION BATTERY MARKET SNAPSHOT

TABLE 28 NORTH AMERICA: SODIUM-ION BATTERY MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 29 NORTH AMERICA: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.3.2 US

9.3.2.1 Rise in electric vehicles sector to drive market

TABLE 30 US: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.4 EUROPE

9.4.1 RECESSION IMPACT

FIGURE 29 EUROPE: SODIUM-ION BATTERY MARKET SNAPSHOT

TABLE 31 EUROPE: SODIUM-ION BATTERY MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 32 EUROPE: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.4.2 GERMANY

9.4.2.1 Supportive regulatory framework to drive market

TABLE 33 GERMANY: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.4.3 FRANCE

9.4.3.1 Growth of automotive sector to drive market

TABLE 34 FRANCE: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.4.4 UK

9.4.4.1 Surge in electric vehicles and energy storage industry to drive market

TABLE 35 UK: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.4.5 REST OF EUROPE

TABLE 36 REST OF EUROPE: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

9.5 REST OF WORLD

TABLE 37 REST OF WORLD: SODIUM-ION BATTERY MARKET, BY END USE, 2023–2028 (USD MILLION)

10 COMPETITIVE LANDSCAPE

10.1 INTRODUCTION

10.2 STRATEGIES ADOPTED BY KEY PLAYERS

TABLE 38 OVERVIEW OF STRATEGIES ADOPTED BY KEY MANUFACTURERS

10.3 REVENUE ANALYSIS

FIGURE 30 REVENUE ANALYSIS OF KEY COMPANIES IN LAST FIVE YEARS

10.4 MARKET SHARE ANALYSIS

10.4.1 RANKING OF KEY MARKET PLAYERS, 2022

FIGURE 31 RANKING OF TOP FIVE PLAYERS IN SODIUM-ION BATTERY MARKET, 2022

10.4.2 MARKET SHARE OF KEY PLAYERS

FIGURE 32 SODIUM-ION BATTERY MARKET SHARE ANALYSIS

TABLE 39 DEGREE OF COMPETITION: SODIUM-ION BATTERY MARKET

10.4.2.1 Faradion (UK)

10.4.2.2 Contemporary Amperex Technology Co., Ltd (China)

10.4.2.3 Tiamat Energy (France)

10.4.2.4 HiNa Battery Technology Co., Ltd. (China)

10.4.2.5 Jiangsu Zoolnasm Energy Technology Co., Ltd. (China)

10.5 BRAND/PRODUCT COMPARISON

FIGURE 33 BRAND/PRODUCT COMPARISON

10.5.1 SODIUM-ION BATTERIES BY FARADION

10.5.2 SODIUM-ION BATTERIES BY CONTEMPORARY AMPEREX TECHNOLOGY CO., LTD.

10.5.3 SODIUM ION BATTERIES BY TIAMAT ENERGY

10.5.4 SODIUM ION BATTERIES BY HINA BATTERY TECHNOLOGY CO., LTD.

10.5.5 SODIUM ION BATTERIES BY JIANGSU ZOOLNASM ENERGY TECHNOLOGY CO., LTD

10.6 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

10.6.1 STARS

10.6.2 EMERGING LEADERS

10.6.3 PERVASIVE PLAYERS

10.6.4 PARTICIPANTS

FIGURE 34 SODIUM-ION BATTERY MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2022

10.6.5 COMPANY FOOTPRINT

FIGURE 35 SODIUM-ION BATTERY MARKET: COMPANY FOOTPRINT (11 COMPANIES)

TABLE 40 SODIUM-ION BATTERY MARKET: REGION FOOTPRINT (11 COMPANIES)

TABLE 41 SODIUM-ION BATTERY MARKET: TYPE FOOTPRINT (11 COMPANIES)

TABLE 42 SODIUM-ION BATTERY MARKET: END-USE INDUSTRY FOOTPRINT (11 COMPANIES)

10.7 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2022

10.7.1 PROGRESSIVE COMPANIES

10.7.2 RESPONSIVE COMPANIES

10.7.3 DYNAMIC COMPANIES

10.7.4 STARTING BLOCKS

FIGURE 36 SODIUM-ION BATTERY MARKET: COMPANY EVALUATION MATRIX (STARTUPS/SMES), 2022

10.7.5 COMPETITIVE BENCHMARKING

TABLE 43 SODIUM-ION BATTERY MARKET: KEY STARTUPS/SMES

TABLE 44 SODIUM-ION BATTERY MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

10.8 VALUATION AND FINANCIAL METRICS

FIGURE 37 COMPANY VALUATION OF KEY PLAYERS

FIGURE 38 EV/EBITDA OF KEY PLAYERS

FIGURE 39 YEAR-TO-DATE (YTD) PRICE TOTAL RETURN AND FIVE-YEAR STOCK BETA OF KEY MANUFACTURERS

10.9 COMPETITIVE SCENARIO AND TRENDS

10.9.1 PRODUCT LAUNCHES

TABLE 45 SODIUM-ION BATTERY MARKET: PRODUCT LAUNCHES, JUNE 2019–MARCH 2024

10.9.2 DEALS

TABLE 46 SODIUM-ION BATTERY MARKET: DEALS, JUNE 2019–MARCH 2024

10.9.3 EXPANSIONS

TABLE 47 SODIUM-ION BATTERY MARKET: EXPANSIONS, JUNE 2019–MARCH 2024

11 COMPANY PROFILES

11.1 KEY PLAYERS

(Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View)*

11.1.1 FARADION

TABLE 48 FARADION: COMPANY OVERVIEW

TABLE 49 FARADION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 50 FARADION: DEALS

TABLE 51 FARADION: EXPANSIONS

11.1.2 CONTEMPORARY AMPEREX TECHNOLOGY CO., LTD.

TABLE 52 CONTEMPORARY AMPEREX TECHNOLOGY CO., LTD.: COMPANY OVERVIEW

FIGURE 40 CONTEMPORARY AMPEREX TECHNOLOGY CO., LTD.: COMPANY SNAPSHOT

TABLE 53 CONTEMPORARY AMPEREX TECHNOLOGY CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 54 CONTEMPORARY AMPEREX TECHNOLOGY CO., LTD.: PRODUCT LAUNCHES

TABLE 55 CONTEMPORARY AMPEREX TECHNOLOGY CO., LTD.: DEALS

TABLE 56 CONTEMPORARY AMPEREX TECHNOLOGY CO., LTD.: EXPANSIONS**11.1.3 TIAMAT ENERGY****TABLE 57 TIAMAT ENERGY: COMPANY OVERVIEW****TABLE 58 TIAMAT ENERGY: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 59 TIAMAT ENERGY: DEALS****11.1.4 HINA BATTERY TECHNOLOGY CO., LTD.****TABLE 60 HINA BATTERY TECHNOLOGY CO., LTD.: COMPANY OVERVIEW****TABLE 61 HINA BATTERY TECHNOLOGY CO., LTD.:****PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 62 HINA BATTERY TECHNOLOGY CO., LTD.: DEALS****11.1.5 JIANGSU ZOOLNASM ENERGY TECHNOLOGY CO., LTD.****TABLE 63 JIANGSU ZOOLNASM ENERGY TECHNOLOGY CO., LTD.: COMPANY OVERVIEW****TABLE 64 JIANGSU ZOOLNASM ENERGY TECHNOLOGY CO., LTD.:****PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 65 JIANGSU ZOOLNASM ENERGY TECHNOLOGY CO., LTD.: EXPANSIONS****11.1.6 ALTRIS AB****TABLE 66 ALTRIS AB: COMPANY OVERVIEW****TABLE 67 ALTRIS AB: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 68 ALTRIS AB: DEALS****11.1.7 NATRON ENERGY, INC.****TABLE 69 NATRON ENERGY, INC.: COMPANY OVERVIEW****TABLE 70 NATRON ENERGY INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 71 NATRON ENERGY INC.: PRODUCT LAUNCHES****TABLE 72 NATRON ENERGY INC.: DEALS****TABLE 73 NATRON ENERGY INC.: EXPANSIONS****11.1.8 NGK INSULATORS, LTD.****TABLE 74 NGK INSULATORS, LTD.: COMPANY OVERVIEW****FIGURE 41 NGK INSULATORS, LTD.: COMPANY SNAPSHOT****TABLE 75 NGK INSULATORS, LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 76 NGK INSULATORS, LTD.: EXPANSIONS****11.1.9 LI-FUN TECHNOLOGY CORPORATION LIMITED****TABLE 77 LI-FUN TECHNOLOGY CORPORATION LIMITED: COMPANY OVERVIEW****TABLE 78 LI-FUN TECHNOLOGY CORPORATION LIMITED:****PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 79 LI-FUN TECHNOLOGY CORPORATION LIMITED: DEALS****11.1.10 JIANGSU TRANSIMAGE TECHNOLOGY CO., LTD.****TABLE 80 JIANGSU TRANSIMAGE SODIUM-LON BATTERY TECHNOLOGY CO.,**

LTD.: COMPANY OVERVIEW

TABLE 81 JIANGSU TRANSIMAGE SODIUM-LON BATTERY TECHNOLOGY CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 82 JIANGSU TRANSIMAGE SODIUM-LON BATTERY TECHNOLOGY CO., LTD.: DEALS

11.1.11 ZHEJIANG NATRIUM ENERGY CO., LTD.

TABLE 83 ZHEJIANG NATRIUM ENERGY CO., LTD.: COMPANY OVERVIEW

TABLE 84 ZHEJIANG NATRIUM ENERGY CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 85 ZHEJIANG NATRIUM ENERGY CO., LTD.: DEALS

TABLE 86 ZHEJIANG NATRIUM ENERGY CO., LTD.: EXPANSIONS, JUNE 2019–MARCH 2024

11.2 OTHER PLAYERS**11.2.1 SODION ENERGY PVT. LTD.**

TABLE 87 SODION ENERGY PVT. LTD.: COMPANY OVERVIEW

TABLE 88 SODION ENERGY PVT. LTD.: PRODUCT LAUNCHES

TABLE 89 SODION ENERGY PVT. LTD.: DEALS

11.2.2 INDI ENERGY

TABLE 90 INDI ENERGY: COMPANY OVERVIEW

11.2.3 NORTHVOLT AB

TABLE 91 NORTHVOLT AB: COMPANY OVERVIEW

TABLE 92 NORTHVOLT AB: PRODUCT LAUNCHES

11.2.4 ZONERGY CORPORATION

TABLE 93 ZONERGY CORPORATION.: COMPANY OVERVIEW

11.2.5 BYD MOTORS INC.

TABLE 94 BYD MOTORS INC.: COMPANY OVERVIEW

TABLE 95 BYD COMPANY LTD.: DEALS

11.2.6 FARASIS ENERGY EUROPE GMBH

TABLE 96 FARASIS ENERGY EUROPE GMBH: COMPANY OVERVIEW

TABLE 97 FARASIS ENERGY EUROPE GMBH: PRODUCT LAUNCHES

11.2.7 FARASIS ENERGY(GANZHOU)CO., LTD.

TABLE 98 FARASIS ENERGY (GANZHOU) CO., LTD.: COMPANY OVERVIEW

*Details on Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View might not be captured in case of unlisted companies.

12 ADJACENT AND RELATED MARKET**12.1 INTRODUCTION****12.2 LIMITATIONS**

12.3 SODIUM-ION BATTERY INTERCONNECTED MARKET

12.4 LITHIUM-ION BATTERY MARKET

12.4.1 MARKET DEFINITION

12.4.2 MARKET OVERVIEW

12.4.3 LITHIUM-ION BATTERY, BY VOLTAGE

TABLE 99 LITHIUM-ION BATTERY, BY VOLTAGE, 2019–2022 (USD MILLION)

TABLE 100 LITHIUM-ION BATTERY, BY VOLTAGE, 2023–2032 (USD MILLION)

12.4.3.1 Low Voltage (Below 12 V)

12.4.3.2 Medium Voltage (Between 12–36 V)

12.4.3.3 High Voltage (Above 36 V)

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

I would like to order

Product name: Sodium-Ion Battery Market by Battery Type (Sodium-Sulfur, and Sodium-Salt), Technology Type (Aqueous and Non-Aqueous), End-Use (Energy Storage, Automotive, and Industrial), and Region (Asia Pacific, Europe, and North America) - Global Forecast to 2028

Product link: <https://marketpublishers.com/r/S56683D16F10EN.html>

Price: US\$ 4,950.00 (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/S56683D16F10EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970