

Silicon Battery Market by Capacity (10,000 mAh), Component (Cathode, Anode, Electrolyte), Application (Aerospace & Defense, Consumer Electronics, Automotive, Medical Devices, Energy) and Region - Global Forecast to 2028

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Abstracts

The global silicon battery market size is estimated to grow from USD 55 million in 2023 to USD 414 million by 2028, at a CAGR of 49.5%. Silicon anode batteries promise a long battery life and long-lasting storage due to the increased capacity of silicon to store electric charge. Researchers and companies have proved their greater charge capacity over traditional graphite anode. Silicon batteries can be used in various applications, from electric vehicles to medical equipment, energy, aviation, and consumer electronics. Excellent performance, long life, and greater safety make these batteries ideal for electric vehicles, energy storage, and aerospace applications.

' >10,000 mAh segment is projected to grow at significant CAGR during the forecast period”

Batteries in this range are expected to be used in energy-heavy applications such as EVs, material handling equipment, marine, robots, industrial, renewable energy storage, military, aircraft, drones, satellites, and spacecraft. The demand for lithium silicon batteries in the aviation industry will rapidly rise once silicon batteries are fully commercialized. The rising emphasis on EVs, favorable government initiatives, and the shift to sustainable mobility will also drive the market for batteries in the >10,000 mAh range. These batteries are expected to be commercialized for EVs in the coming years. Post commercialization, they are expected to gain a significant market share. Some automobile giants have already partnered with key providers of lithium silicon batteries.

“Consumer electronics industry is expected to grow at an impressive CAGR during the forecast period”

Smartphones and laptops are expected to be some of the significant future application areas requiring slimmer and lightweight products powered with silicon batteries. The launch of 5G-enabled smartphones will spur demand for more robust and smaller batteries. Improvements in laptop performance will also hinge on better and more powerful batteries. Such technological advancements will support silicon battery demand in various consumer electronics products. Some key companies in this segment include Enovix Corporation (US), Group14 Technologies, Inc. (US), and Nanospan (US). Smartphones are pervasive tools for personal and business use by consumers across the globe. The increasing use of smartphones for various purposes is expected to offer high scope to device manufacturers to produce advanced batteries with improved features. Long battery life is one such feature desired by smartphone users. Silicon batteries find application in smartphones due to their features, such as lightweight and high energy capacity. Using silicon-anode batteries will improve energy density without changing the power architecture or supporting the ecosystem of smartphones.

“The market in Europe is expected to grow at steady CAGR during the forecast period”

The European market includes the UK, Germany, France, and the Rest of Europe. The automobile sector of Europe is an advanced industry with the leanest production processes where water and energy use are optimal. The market for wearable devices is also growing in Europe. Hence, Europe has a flourishing silicon battery market, with high growth anticipated. Several organizations and governments are structuring the road map for electro-mobility and energy storage systems in this region. Thus, advanced lithium-ion batteries such as silicon anode are expected to gain massive popularity in the coming years.

Breakdown of the profiles of primary participants:

By Company Type: Tier 1 - 45%, Tier 2 - 35%, and Tier 3 - 20%

By Designation: C-level Executives - 40%, Directors - 45%, and Others - 15%

By Region: North America - 46%, Europe - 21%, Asia Pacific - 25%, and RoW - 8%

Major players profiled in this report are as follows: Amprius Technologies, Inc. (US), Enovix Corporation (US), Enevate Corporation (US), NanoGraf Corporation (US), Sila Nanotechnologies, Inc. (US), Group14 Technologies, Inc. (US), Nexeon Limited (UK), and others.

Research Coverage

In this report, the silicon battery market has been segmented based on key components, type, capacity, application, and region. The silicon battery market based on key components has been segmented into anode, cathode, electrolyte, and others. Based on type, the market has been segmented into cells and battery packs. Based on capacity, the market has been segmented into 10,000 mAh. Based on application, the market has been segmented into aerospace & defense, consumer electronics, automotive, medical devices, and energy. The study also forecasts the size of the market in four main regions—North America, Europe, Asia Pacific, and RoW.

Key Benefits of Buying the Report:

The report provides insights on the following pointers:

Analysis of key drivers (High-energy density compared to other battery chemistries, Growing R&D initiatives by manufacturers for improving li-ion batteries, Increasing demand for high-capacity and lightweight batteries in consumer electronics), restraints (Volumetric expansion in silicon batteries), opportunities (Significant rise in demand for electric vehicles, Need for high-performance batteries in energy storage applications), and challenges (Poor cycle life resulting from pulverization of Si particles during volumetric fluctuations, High manufacturing costs) influencing the growth of the silicon battery market

Product Development/Innovation: Detailed insights on upcoming products, technologies, silicon anode materials, research & development activities, funding activities, industry partnerships, and new product launches in the silicon battery market

Market Development: Comprehensive information about lucrative markets – the report analyses the silicon battery market across regions such as North America, Europe, Asia Pacific, Middle East & Africa, and South America.

Market Diversification: Exhaustive information about new products & technologies, untapped geographies, recent developments, and investments in the silicon battery market

Competitive Assessment: In-depth assessment of market ranks, growth strategies, and product offerings of leading players like Amprius Technologies, Inc. (US), Enovix Corporation (US), Enevate Corporation (US), Sila Nanotechnologies, Inc. (US), Group14 Technologies, Inc. (US), Nexeon Limited (UK), and NanoGraf Corporation (US) among others in the silicon battery market

Strategies: The report also helps stakeholders understand the pulse of the silicon battery market and provides them information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 SILICON BATTERY MARKET SEGMENTATION

1.3.2 GEOGRAPHIC SCOPE

FIGURE 2 SILICON BATTERY MARKET: REGIONAL SCOPE

1.3.3 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

1.5 LIMITATIONS

1.6 STAKEHOLDERS

1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 3 SILICON BATTERY MARKET: RESEARCH DESIGN

2.1.1 SECONDARY AND PRIMARY RESEARCH

FIGURE 4 SILICON BATTERY MARKET: RESEARCH APPROACH

2.1.2 SECONDARY DATA

2.1.2.1 List of major secondary sources

2.1.2.2 Key data from secondary sources

2.1.3 PRIMARY DATA

2.1.3.1 Primary interviews with experts

2.1.3.2 Key data from primary sources

2.1.3.3 Key industry insights

2.1.3.4 Breakdown of primaries

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach for arriving at market size by bottom-up analysis

FIGURE 5 SILICON BATTERY MARKET: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach for capturing market size by using top-down analysis

FIGURE 6 SILICON BATTERY MARKET: TOP-DOWN APPROACH

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY FOR SILICON BATTERY MARKET USING SUPPLY-SIDE ANALYSIS

2.3 DATA TRIANGULATION

FIGURE 8 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

2.5 RECESSION IMPACT: RESEARCH APPROACH

2.6 LIMITATIONS AND RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 9 SILICON BATTERY MARKET, 2019–2028 (USD MILLION)

FIGURE 10 3,000–10,000 MAH CAPACITY SEGMENT TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD

FIGURE 11 CONSUMER ELECTRONICS APPLICATION TO HOLD LARGEST MARKET SHARE IN 2028

FIGURE 12 ASIA PACIFIC EXPECTED TO RECORD HIGHEST CAGR DURING FORECAST PERIOD

3.1 SILICON BATTERY MARKET: IMPACT OF RECESSION

FIGURE 13 GDP GROWTH PROJECTION TILL 2023 FOR MAJOR ECONOMIES

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN SILICON BATTERY MARKET

FIGURE 14 RISING DEMAND FOR EFFICIENT AND LONG-LASTING BATTERIES TO CREATE GROWTH OPPORTUNITIES FOR SILICON BATTERY MARKET

4.2 SILICON BATTERY MARKET, BY CAPACITY

FIGURE 15 3,000–10,000 MAH CAPACITY SEGMENT TO DOMINATE SILICON BATTERY MARKET DURING FORECAST PERIOD

4.3 SILICON BATTERY MARKET, BY APPLICATION

FIGURE 16 CONSUMER ELECTRONICS APPLICATION TO HOLD LARGEST SIZE OF SILICON BATTERY MARKET IN 2028

4.4 SILICON BATTERY MARKET IN NORTH AMERICA, BY COUNTRY AND APPLICATION

FIGURE 17 US TO SECURE LARGEST SHARE OF SILICON BATTERY MARKET IN NORTH AMERICA BY 2028

4.5 SILICON BATTERY MARKET, BY COUNTRY

FIGURE 18 CHINA TO REGISTER HIGHEST CAGR FROM 2023 TO 2028

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 19 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES:
SILICON BATTERY MARKET

5.2.1 DRIVERS

5.2.1.1 High energy density compared with other battery chemistries

TABLE 1 COMPARISON OF VARIOUS ANODE MATERIALS USED IN BATTERIES

5.2.1.2 Growing R&D initiatives by manufacturers to improve li-ion batteries

5.2.1.3 Increasing demand for high-capacity and lightweight batteries in consumer electronics

FIGURE 20 SILICON BATTERY MARKET: IMPACT ANALYSIS OF DRIVERS

5.2.2 RESTRAINTS

5.2.2.1 Volumetric expansion in silicon batteries

FIGURE 21 SILICON BATTERY MARKET: IMPACT ANALYSIS OF RESTRAINTS

5.2.3 OPPORTUNITIES

5.2.3.1 Significant rise in demand for electric vehicles

FIGURE 22 GLOBAL ELECTRIC VEHICLE SHIPMENTS, BY MODE, 2020 TO 2030
(MILLION UNITS)

5.2.3.2 Need for high-performance batteries in energy storage applications

FIGURE 23 SILICON BATTERY MARKET: IMPACT ANALYSIS OF OPPORTUNITIES

5.2.4 CHALLENGES

5.2.4.1 Poor cycle life resulting from pulverization of Si particles during volumetric fluctuations

5.2.4.2 High manufacturing costs and complexities involved in developing silicon materials

FIGURE 24 SILICON BATTERY MARKET: IMPACT ANALYSIS OF CHALLENGES

5.3 VALUE CHAIN ANALYSIS

FIGURE 25 SILICON BATTERY MARKET: VALUE CHAIN ANALYSIS

5.4 PRICING ANALYSIS

TABLE 2 AVERAGE SELLING PRICES OF LITHIUM-ION BATTERY PACKS AND CELLS

TABLE 3 AVERAGE SELLING PRICES OF LITHIUM-ION BATTERIES, BY KEY APPLICATION

FIGURE 26 AVERAGE SELLING PRICES OF LITHIUM-ION BATTERIES, BY APPLICATION

6 SILICON BATTERY MARKET, KEY COMPONENTS

Silicon Battery Market by Capacity (<3,000 mAh, 3,000–10,000 mAh, >10,000 mAh), Component (Cathode, Anode, Ele...

6.1 INTRODUCTION

FIGURE 27 COMPONENTS USED IN SILICON BATTERY

6.2 CATHODE

6.2.1 DETERMINES CAPACITY AND VOLTAGE OF SILICON BATTERIES

6.3 ANODE

6.3.1 PROMISING ALTERNATIVE TO LITHIUM OWING TO ITS HIGH ENERGY CAPACITY

6.4 ELECTROLYTE

6.4.1 IMPROVES ELECTROCHEMICAL PERFORMANCE OF SILICON ANODES

6.5 OTHERS

7 TYPES OF SILICON BATTERY

7.1 INTRODUCTION

FIGURE 28 SILICON BATTERY MARKET, BY TYPE

7.2 CELLS

7.2.1 HIGH DEMAND FOR LIGHTWEIGHT CELLS IN CONSUMER ELECTRONICS INDUSTRY

7.3 BATTERY PACKS

7.3.1 GROWING DEMAND IN HIGH ENERGY DENSITY APPLICATIONS

8 SILICON BATTERY MARKET, BY CAPACITY

8.1 INTRODUCTION

FIGURE 29 SILICON BATTERY MARKET, BY CAPACITY

FIGURE 30 3,000–10,000 MAH TO EXHIBIT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 4 SILICON BATTERY MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 5 SILICON BATTERY MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

8.2 10,000 MAH: SILICON BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

9 SILICON BATTERY MARKET, BY APPLICATION

9.1 INTRODUCTION

FIGURE 31 SILICON BATTERY MARKET, BY APPLICATION

FIGURE 32 CONSUMER ELECTRONICS TO CONTRIBUTE LARGEST MARKET SHARE IN 2028

TABLE 18 SILICON BATTERY MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 19 SILICON BATTERY MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

9.2 CONSUMER ELECTRONICS

9.2.1 RISING DEMAND FOR HIGH BATTERY EFFICIENCY AND LONGER LIFE CYCLES

9.2.2 SMARTPHONES

9.2.3 LAPTOPS

9.2.4 WEARABLE DEVICES

TABLE 20 CONSUMER ELECTRONICS: SILICON BATTERY MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 21 CONSUMER ELECTRONICS: SILICON BATTERY MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

TABLE 22 CONSUMER ELECTRONICS: SILICON BATTERY MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 23 CONSUMER ELECTRONICS: SILICON BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

9.3 AUTOMOTIVE

9.3.1 INCREASING DEMAND FOR EVS WORLDWIDE

9.3.2 BATTERY ELECTRIC VEHICLES

9.3.3 PLUG-IN HYBRID ELECTRIC VEHICLES

TABLE 24 AUTOMOTIVE: SILICON BATTERY MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 25 AUTOMOTIVE: SILICON BATTERY MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

TABLE 26 AUTOMOTIVE: SILICON BATTERY MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 27 AUTOMOTIVE: SILICON BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

9.4 AEROSPACE & DEFENSE

9.4.1 GROWING USAGE OF SILICON BATTERIES IN SATELLITES AND DRONES

TABLE 28 AEROSPACE & DEFENSE: SILICON BATTERY MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 29 AEROSPACE & DEFENSE: SILICON BATTERY MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

TABLE 30 AEROSPACE & DEFENSE: SILICON BATTERY MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 31 AEROSPACE & DEFENSE: SILICON BATTERY MARKET, BY REGION,

2023–2028 (USD MILLION)

9.5 MEDICAL DEVICES

9.5.1 GROWING DEMAND FOR SMALLER BATTERIES WITH HIGH CAPACITIES

TABLE 32 MEDICAL DEVICES: SILICON BATTERY MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

TABLE 33 MEDICAL DEVICES: SILICON BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

9.6 ENERGY

9.6.1 INCREASING DEMAND FOR HIGH-ENERGY STORAGE SYSTEMS

TABLE 34 ENERGY: SILICON BATTERY MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

TABLE 35 ENERGY: SILICON BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

10 SILICON BATTERY MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 33 SILICON BATTERY MARKET, BY REGION

FIGURE 34 CHINA TO EXHIBIT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 36 SILICON BATTERY MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 37 SILICON BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

10.2 NORTH AMERICA

FIGURE 35 NORTH AMERICA: SILICON BATTERY MARKET SNAPSHOT

FIGURE 36 US TO ACCOUNT FOR LARGEST SHARE OF NORTH AMERICAN SILICON BATTERY MARKET DURING FORECAST PERIOD

TABLE 38 NORTH AMERICA: SILICON BATTERY MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 39 NORTH AMERICA: SILICON BATTERY MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 40 NORTH AMERICA: SILICON BATTERY MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 41 NORTH AMERICA: SILICON BATTERY MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

TABLE 42 NORTH AMERICA: SILICON BATTERY MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 43 NORTH AMERICA: SILICON BATTERY MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

10.2.1 US

10.2.1.1 Large presence of silicon battery technology providers and startups to drive

market

10.2.2 CANADA

10.2.2.1 Increasing number of R&D initiatives to develop silicon battery technology

10.2.3 MEXICO

10.2.3.1 Increasing investment to modernize manufacturing and energy infrastructure

10.3 EUROPE

FIGURE 37 EUROPE: SILICON BATTERY MARKET SNAPSHOT

FIGURE 38 GERMANY TO GROW WITH HIGHEST CAGR DURING FORECAST PERIOD

TABLE 44 EUROPE: SILICON BATTERY MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 45 EUROPE: SILICON BATTERY MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 46 EUROPE: SILICON BATTERY MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 47 EUROPE: SILICON BATTERY MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

TABLE 48 EUROPE: SILICON BATTERY MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 49 EUROPE: SILICON BATTERY MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

10.3.1 GERMANY

10.3.1.1 Well-established automotive sector to expand market

10.3.2 UK

10.3.2.1 Growing adoption of electric vehicles to offer growth opportunities

10.3.3 FRANCE

10.3.3.1 Increasing government investments in development of EV sector to boost

market

10.3.4 REST OF EUROPE

10.4 ASIA PACIFIC

FIGURE 39 ASIA PACIFIC: SILICON BATTERY MARKET SNAPSHOT

FIGURE 40 CHINA TO ACCOUNT FOR LARGEST SHARE OF ASIA PACIFIC SILICON BATTERY MARKET DURING FORECAST PERIOD

TABLE 50 ASIA PACIFIC: SILICON BATTERY MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 51 ASIA PACIFIC: SILICON BATTERY MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 52 ASIA PACIFIC: SILICON BATTERY MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 53 ASIA PACIFIC: SILICON BATTERY MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

TABLE 54 ASIA PACIFIC: SILICON BATTERY MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 55 ASIA PACIFIC: SILICON BATTERY MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

10.4.1 CHINA

10.4.1.1 Rising demand for power generation to support manufacturing sector to drive market

10.4.2 JAPAN

10.4.2.1 Increasing focus on R&D for advanced battery technologies

10.4.3 INDIA

10.4.3.1 Rising manufacturing sector in country to create growth opportunities

10.4.4 SOUTH KOREA

10.4.4.1 Expanding electronics sector and increasing adoption of EVs to drive demand for silicon batteries

10.4.5 REST OF ASIA PACIFIC

10.5 ROW

FIGURE 41 MIDDLE EAST & AFRICA TO ACCOUNT FOR LARGEST SHARE OF ROW SILICON BATTERY MARKET DURING FORECAST PERIOD

TABLE 56 ROW: SILICON BATTERY MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 57 ROW: SILICON BATTERY MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

TABLE 58 ROW: SILICON BATTERY MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

10.5.1 MIDDLE EAST & AFRICA

10.5.1.1 Growing initiatives to boost renewable energy adoption

10.5.2 SOUTH AMERICA

10.5.2.1 Rising energy demand to fuel market growth

11 COMPETITIVE LANDSCAPE

11.1 INTRODUCTION

11.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

TABLE 59 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN SILICON BATTERY MARKET

11.3 MARKET RANKING ANALYSIS, 2022

TABLE 60 RANKING OF PLAYERS IN SILICON BATTERY MARKET, 2022

11.4 COMPANY EVALUATION QUADRANT, 2022

11.4.1 STARS

11.4.2 EMERGING LEADERS

11.4.3 PERVASIVE PLAYERS

11.4.4 PARTICIPANTS

FIGURE 42 SILICON BATTERY MARKET COMPETITIVE LEADERSHIP MAPPING, 2022

11.5 SILICON BATTERY MARKET: COMPANY FOOTPRINT

TABLE 61 OVERALL COMPANY FOOTPRINT

TABLE 62 COMPANY APPLICATION FOOTPRINT

TABLE 63 COMPANY REGIONAL FOOTPRINT

11.6 COMPETITIVE SITUATIONS AND TRENDS

11.6.1 PRODUCT LAUNCHES

TABLE 64 SILICON BATTERY MARKET: PRODUCT LAUNCHES

11.6.2 DEALS

TABLE 65 SILICON BATTERY MARKET: DEALS

12 COMPANY PROFILES

12.1 KEY PLAYERS

(Business Overview, Products Offered, Recent Developments, and MnM View)*

12.1.1 AMPRIUS TECHNOLOGIES, INC.

TABLE 66 AMPRIUS TECHNOLOGIES, INC.: BUSINESS OVERVIEW

TABLE 67 AMPRIUS TECHNOLOGIES, INC.: PRODUCTS OFFERED

TABLE 68 AMPRIUS TECHNOLOGIES, INC.: PRODUCT LAUNCHES

TABLE 69 AMPRIUS TECHNOLOGIES, INC.: DEALS

12.1.2 ENOVIX CORPORATION

TABLE 70 ENOVIX CORPORATION: BUSINESS OVERVIEW

TABLE 71 ENOVIX CORPORATION: PRODUCTS OFFERED

TABLE 72 ENOVIX CORPORATION: PRODUCT LAUNCHES

TABLE 73 ENOVIX CORPORATION: DEALS

TABLE 74 ENOVIX CORPORATION: OTHER DEVELOPMENTS

12.1.3 GROUP14 TECHNOLOGIES, INC.

TABLE 75 GROUP14 TECHNOLOGIES, INC.: BUSINESS OVERVIEW

TABLE 76 GROUP14 TECHNOLOGIES, INC.: PRODUCTS OFFERED

TABLE 77 GROUP14 TECHNOLOGIES, INC.: DEALS

12.1.4 SILA NANOTECHNOLOGIES, INC.

TABLE 78 SILA NANOTECHNOLOGIES, INC.: BUSINESS OVERVIEW

TABLE 79 SILA NANOTECHNOLOGIES, INC.: PRODUCTS OFFERED

TABLE 80 SILA NANOTECHNOLOGIES, INC.: PRODUCT LAUNCHES

TABLE 81 SILA NANOTECHNOLOGIES, INC.: DEALS

TABLE 82 SILA NANOTECHNOLOGIES: OTHER DEVELOPMENTS

12.1.5 ELKEM

TABLE 83 ELKEM: BUSINESS OVERVIEW

FIGURE 43 ELKEM: COMPANY SNAPSHOT

TABLE 84 ELKEM: PRODUCTS OFFERED

12.1.6 LANXI ZHIDE ADVANCED MATERIALS CO., LTD.

TABLE 85 LANXI ZHIDE ADVANCED MATERIALS CO., LTD.: BUSINESS OVERVIEW

TABLE 86 LANXI ZHIDE ADVANCED MATERIALS CO., LTD.: PRODUCTS OFFERED

12.1.7 NANOSPAN

TABLE 87 NANOSPAN: BUSINESS OVERVIEW

TABLE 88 NANOSPAN: PRODUCTS OFFERED

12.1.8 NEXEON LIMITED

TABLE 89 NEXEON LIMITED: BUSINESS OVERVIEW

TABLE 90 NEXEON LIMITED: PRODUCTS OFFERED

TABLE 91 NEXEON LIMITED: PRODUCT LAUNCHES

TABLE 92 NEXEON LIMITED: DEALS

TABLE 93 NEXEON LIMITED: OTHER DEVELOPMENTS

12.1.9 ONED BATTERY SCIENCES

TABLE 94 ONED BATTERY SCIENCES: BUSINESS OVERVIEW

TABLE 95 ONED BATTERY SCIENCES: PRODUCTS OFFERED

TABLE 96 ONED BATTERY SCIENCES: DEALS

12.1.10 XNRGI

TABLE 97 XNRGI: BUSINESS OVERVIEW

TABLE 98 XNRGI: PRODUCTS OFFERED

* Business Overview, Products Offered, Recent Developments, and MnM View might not be captured in case of unlisted companies.

12.2 OTHER PLAYERS

12.2.1 ADVANO

12.2.2 ALKEGEN (SIFAB)

12.2.3 CENATE AS

12.2.4 ENEVATE CORPORATION

12.2.5 E-MAGY

12.2.6 EOCELL, INC.

12.2.7 GLOBAL GRAPHENE GROUP, INC.

12.2.8 LEYDENJAR TECHNOLOGIES B.V.

12.2.9 NANOGRAP CORPORATION

12.2.10 PARACLETE ENERGY, INC.

12.2.11 SILIB

12.2.12 TARGRAY TECHNOLOGY INTERNATIONAL INC.

13 APPENDIX

13.1 INSIGHTS OF INDUSTRY EXPERTS

13.2 DISCUSSION GUIDE

13.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.4 AVAILABLE CUSTOMIZATION OPTIONS

13.5 RELATED REPORTS

13.6 AUTHOR DETAILS

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