

# **Battery Energy Storage System (BESS) Market by Type (Lithium-ion Battery, Advanced Lead Acid Battery, Flow Battery, Sodium-ion Battery), Capacity (Below 30 kWh, 30 kWh to 10 MWh, Above 10 MWh), Connection Type (On-Grid, Off-Grid) - Global Forecast to 2030**

<https://marketpublishers.com/r/CA2E75A9A85CEN.html>

Date: October 2025

Pages: 316

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

ID: CA2E75A9A85CEN

## **Abstracts**

With a CAGR of 15.8%, the global battery energy storage system market is projected to grow from USD 50.81 billion in 2025 to USD 105.96 billion by 2030. The global battery energy storage system (BESS) market is experiencing strong growth due to multiple converging factors. Increasing integration of renewable energy sources, such as solar and wind, creates a higher demand for reliable storage solutions to balance grid fluctuations. Rising electricity consumption across residential, commercial, and industrial sectors further drives the need for flexible energy management. Declining costs of lithium-ion and other advanced battery technologies make BESS solutions more economically viable, while supportive government policies, incentives, and regulatory frameworks accelerate deployment. Additionally, the growing focus on grid modernization, resilience against outages, and the transition to a low-carbon energy ecosystem reinforce market expansion. These factors collectively position BESS as a critical enabler for sustainable, efficient, and reliable energy infrastructure worldwide.

“The above 10 MWh energy capacity segment is expected to witness significant CAGR growth between 2025 and 2030.”

High-capacity BESSs offer extended service life and are particularly suited for large-scale applications, including peak shaving, valley filling, and grid stabilization in future global energy interconnections. These systems can efficiently manage energy demands

during peak load periods, support the integration of renewable energy, and mitigate fluctuations from large-scale wind and solar power generation. By balancing variable renewable outputs, high-capacity storage ensures a smoother energy supply, enhances grid reliability, and strengthens real-time operational safety. Furthermore, these large-scale BESS facilitate the transition to a low-carbon energy ecosystem by enabling efficient storage and distribution of clean energy across regional and national grids, making them critical for future-proofing energy infrastructure.

“The utility application segment is projected to account for the largest market share during the forecast period.”

The utility application segment is expected to secure the largest share of the battery energy storage system (BESS) market during the forecast period. Utility applications involve integration with the electric grid, where electricity generated at power plants must be carefully balanced with consumption to prevent voltage and frequency deviations that could lead to outages or equipment damage. BESS addresses this challenge by stabilizing voltage and frequency, ensuring reliable grid operations. These systems offer a cost-effective solution for substations and transmission and distribution (T&D) networks, enabling them to manage growing peak demand efficiently. Additionally, utility-scale BESS supports the integration of renewable energy sources, enhances grid resilience, and facilitates the shift toward a more flexible, low-carbon energy infrastructure.

“North America is anticipated to gain a substantial market share by 2030.”

The region's growth is driven by increasing deployment of renewable energy projects, rising electricity demand across residential, commercial, and utility sectors, and a focus on enhancing grid reliability and resilience. Supportive regulatory frameworks, incentives for clean energy adoption, and investments in grid modernization and smart energy technologies are further accelerating the integration of BESS. Large-scale energy storage projects are being implemented to manage peak loads, stabilize voltage and frequency, and facilitate the greater integration of intermittent renewable sources, such as solar and wind. Moreover, advancements in battery technologies, coupled with increasing corporate and utility commitments to decarbonization, are driving innovation and adoption of utility-scale and distributed storage solutions. These factors position North America as a leading market for large-scale, reliable, and sustainable energy storage infrastructure.

## **Breakdown of primaries**

Various executives from key organizations operating in the battery energy storage system market were interviewed in-depth, including CEOs, marketing directors, and innovation and technology directors.

By Company Type: Tier 1 –45%, Tier 2 – 30%, and Tier 3 – 25%

By Designation: C-level – 35%, Directors – 45%, and Others – 20%

By Region: North America – 30%, Europe – 25%, Asia Pacific – 35%, and RoW – 10%

Note: Three tiers of companies are defined based on their total revenue as of 2024: tier 3 = revenue less than USD 500 million; tier 2 = revenue between USD 500 million and USD 5 billion; and tier 1 = revenue more than USD 5 billion. Other designations include sales managers, marketing managers, and product managers.

Major players profiled in this report are as follows: LG Energy Solution (South Korea), Samsung SDI (South Korea), Panasonic Holdings Corporation (Japan), BYD Company Ltd. (China), Tesla (US), ABB (Switzerland), Delta Electronics, Inc. (Taiwan), GE Vernova (US), Hitachi Energy Ltd. (Switzerland), Honeywell International Inc. (US), NGK Insulators, Ltd. (Japan), Siemens AG (Germany), Toshiba Corporation (Japan), Johnson Control (US), Volvo AB (Sweden), AEG (Netherlands), East Penn Manufacturing Company (US), Primus Power Solutions (US), SolarEdge (South Korea), The AES Corporation (US), Trinasolar (China), KORE Power, Inc. (US), ESS Tech, Inc. (US), VRB ENERGY. (Canada), and Saft (France). These leading companies possess a broad portfolio of products, establishing a prominent presence in established and emerging markets.

The study offers a comprehensive competitive analysis of key players in the battery energy storage system market, presenting their company profiles, recent developments, and key market strategies.

## **Research Coverage**

In this report, the battery energy storage system market has been segmented based on battery type ( Lithium-ion, Advanced Lead-acid, Flow batteries, Other batteries), Connection Type (On-grid and Off-grid) Ownership (Customer-owned, Third-Party

Owned, Utility Owned), Energy Capacity (Below 30 kWh, Between 30 kWh to 10 MWh, Above 10 MWh), Application (Residential, Commercial, Utility) and Region (North America, Europe, Asia Pacific, and RoW which includes the Middle East, Africa and South America.)

The report also comprehensively reviews the battery energy storage system market drivers, restraints, opportunities, and challenges. It covers qualitative aspects in addition to the quantitative aspects of these markets.

### Reasons to buy the report

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. It will also help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the battery energy storage system market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

### Key Benefits of Buying the Report

Analysis of key Drivers (Expansion of grid energy storage in modernization projects, Rising adoption of lithium-ion batteries in renewable energy, growth of renewable energy and transition to a low-carbon economy), Restraints (High installation costs of battery energy storage systems), Opportunities (Growing adoption of BESS in global rural electrification initiatives, Increasing demand for uninterrupted power in data centers), and Challenges (Installation complexities in remote locations) influencing the growth of the battery energy storage system market.

Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the market.

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

Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like LG Energy Solution (South Korea), Panasonic Holdings Corporation (Japan), BYD Company Ltd. (China), Samsung SDI (South Korea), Tesla (US), and others.

## Contents

### 1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
  - 1.3.1 MARKETS COVERED AND REGIONAL SCOPE
  - 1.3.2 YEARS CONSIDERED
  - 1.3.3 INCLUSIONS AND EXCLUSIONS
- 1.4 CURRENCY CONSIDERED
- 1.5 UNIT CONSIDERED
- 1.6 LIMITATIONS
- 1.7 STAKEHOLDERS
- 1.8 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH APPROACH
  - 2.1.1 SECONDARY AND PRIMARY RESEARCH
  - 2.1.2 SECONDARY DATA
    - 2.1.2.1 List of key secondary sources
    - 2.1.2.2 Key data from secondary sources
  - 2.1.3 PRIMARY DATA
    - 2.1.3.1 List of primary interview participants
    - 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 TOP-DOWN APPROACH
    - 2.2.1.1 Approach to arrive at market size using top-down analysis (supply side)
  - 2.2.2 BOTTOM-UP APPROACH
    - 2.2.2.1 Approach to arrive at market size using bottom-up analysis (demand side)
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS
- 2.5 RESEARCH LIMITATIONS
- 2.6 RISK ANALYSIS

### 3 EXECUTIVE SUMMARY

## **4 PREMIUM INSIGHTS**

- 4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN BATTERY ENERGY STORAGE SYSTEM MARKET
- 4.2 BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE
- 4.3 BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY
- 4.4 BATTERY ENERGY STORAGE SYSTEM MARKET IN ASIA PACIFIC, BY APPLICATION AND COUNTRY
- 4.5 BATTERY ENERGY STORAGE SYSTEM MARKET, BY GEOGRAPHY

## **5 MARKET OVERVIEW**

- 5.1 INTRODUCTION
- 5.2 MARKET DYNAMICS
  - 5.2.1 DRIVERS
    - 5.2.1.1 Increasing investment in renewable energy grid infrastructure
    - 5.2.1.2 Rising implementation of grid modernization projects
    - 5.2.1.3 Mounting adoption of lithium-ion batteries for renewable energy storage
    - 5.2.1.4 Rapid shift toward low-carbon economy
  - 5.2.2 RESTRAINTS
    - 5.2.2.1 High installation and maintenance costs
  - 5.2.3 OPPORTUNITIES
    - 5.2.3.1 Growing emphasis on rural electrification
    - 5.2.3.2 Rising need for uninterrupted power supply in data centers
    - 5.2.3.3 Decline in lithium-ion battery prices
  - 5.2.4 CHALLENGES
    - 5.2.4.1 Installation complexities in remote locations
    - 5.2.4.2 Overheating and deterioration issues related to Li-ion batteries
- 5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS
- 5.4 VALUE CHAIN ANALYSIS
- 5.5 ECOSYSTEM ANALYSIS
- 5.6 INVESTMENT AND FUNDING SCENARIO
- 5.7 TECHNOLOGY ANALYSIS
  - 5.7.1 KEY TECHNOLOGIES
    - 5.7.1.1 Sodium-sulfur battery
    - 5.7.1.2 Cobalt-free battery
    - 5.7.1.3 Zinc-bromine battery
  - 5.7.2 COMPLEMENTARY TECHNOLOGIES

- 5.7.2.1 Metal-air battery
- 5.7.2.2 Liquid metal battery
- 5.7.2.3 Lithium-sulfur battery
- 5.7.3 ADJACENT TECHNOLOGIES
  - 5.7.3.1 Potassium-metal battery
  - 5.7.3.2 Zinc-manganese battery
  - 5.7.3.3 Lithium-sulfur battery
  - 5.7.3.4 Lithium-metal battery
- 5.8 PATENT ANALYSIS
- 5.9 TRADE ANALYSIS
  - 5.9.1 IMPORT SCENARIO (HS CODE 850650)
  - 5.9.2 EXPORT SCENARIO (HS CODE 850650)
- 5.10 KEY CONFERENCES AND EVENTS, 2025–2026
- 5.11 CASE STUDY ANALYSIS
  - 5.11.1 TESLA DELIVERS MEGAPACKS TO GAMBIT ENERGY STORAGE PLANT TO PROTECT AGAINST OUTAGE
  - 5.11.2 CONVERGENT ENERGY AND POWER SELECTS GE RENEWABLE ENERGY TO DELIVER BATTERY ENERGY STORAGE SYSTEMS TO IMPROVE GRID RELIABILITY
  - 5.11.3 ESKOM LAUNCHES BESS PROJECT TO SUPPORT RENEWABLE ENERGY STRATEGY IN SOUTH AFRICA
  - 5.11.4 ABB AND SMC GLOBAL POWER HOLDINGS PARTNER TO INSTALL BESS TO ENHANCE GRID PERFORMANCE IN PHILIPPINES
- 5.12 REGULATORY LANDSCAPE
  - 5.12.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
  - 5.12.2 STANDARDS AND REGULATIONS
- 5.13 PORTER'S FIVE FORCES ANALYSIS
  - 5.13.1 THREAT OF NEW ENTRANTS
  - 5.13.2 THREAT OF SUBSTITUTES
  - 5.13.3 BARGAINING POWER OF SUPPLIERS
  - 5.13.4 BARGAINING POWER OF BUYERS
  - 5.13.5 INTENSITY OF COMPETITIVE RIVALRY
- 5.14 KEY STAKEHOLDERS AND BUYING CRITERIA
  - 5.14.1 KEY STAKEHOLDERS IN BUYING PROCESS
  - 5.14.2 BUYING CRITERIA
- 5.15 PRICING ANALYSIS
  - 5.15.1 PRICING RANGE OF BATTERY PACKS, BY BATTERY TYPE, 2024
  - 5.15.2 AVERAGE SELLING PRICE OF LITHIUM-ION BATTERY PACKS, BY KEY

## PLAYER, 2024

### 5.15.3 AVERAGE SELLING PRICE TREND OF LITHIUM-ION BATTERIES, BY REGION, 2021–2024

## 5.16 IMPACT OF AI/GEN AI ON BATTERY ENERGY STORAGE SYSTEM MARKET

### 5.16.1 INTRODUCTION

### 5.16.2 AI/GEN AI USE CASES AND MARKET POTENTIAL

## 5.17 IMPACT OF 2025 US TARIFF ON BATTERY ENERGY STORAGE SYSTEM MARKET

### 5.17.1 INTRODUCTION

### 5.17.2 KEY TARIFF RATES

### 5.17.3 PRICE IMPACT ANALYSIS

### 5.17.4 IMPACT ON COUNTRIES/REGIONS

#### 5.17.4.1 US

#### 5.17.4.2 Europe

#### 5.17.4.3 ASIA PACIFIC

### 5.17.5 IMPACT ON APPLICATIONS

## **6 OVERVIEW OF KEY BESS COMPONENTS AND RELATED TECHNOLOGY ADVANCEMENTS**

### 6.1 INTRODUCTION

### 6.2 KEY COMPONENTS OF BATTERY ENERGY STORAGE SYSTEMS

#### 6.2.1 BATTERIES

#### 6.2.2 POWER CONVERSION SYSTEMS (PCS)

#### 6.2.3 BATTERY MANAGEMENT SYSTEMS (BMS)

#### 6.2.4 ENERGY MANAGEMENT SYSTEMS (EMS)

### 6.3 TECHNOLOGY LANDSCAPE AND INNOVATIONS IN BESS COMPONENTS

#### 6.3.1 KEY ADVANCEMENTS IN BATTERY TECHNOLOGIES

##### 6.3.1.1 Key battery developments

###### 6.3.1.1.1 Chemistry diversification

###### 6.3.1.1.2 Cell-to-pack and cell-to-system integration

###### 6.3.1.1.3 Solid-state batteries

###### 6.3.1.1.4 Second-life batteries

##### 6.3.1.2 Impact on business environments

#### 6.3.2 INNOVATIONS IN POWER CONVERSION SYSTEMS (PCS)

##### 6.3.2.1 PCS innovations

###### 6.3.2.1.1 Grid-forming inverters

###### 6.3.2.1.2 Wide bandgap semiconductors

###### 6.3.2.1.3 Modular PCS architectures

6.3.2.1.4 Integrated PCS and transformer systems

6.3.2.2 Impact on business trends

**6.3.3 ADVANCEMENTS IN ENERGY MANAGEMENT SYSTEMS (EMS)**

6.3.3.1 EMS advancements

6.3.3.1.1 AI and predictive optimization

6.3.3.1.2 Cloud-based and edge-enabled EMS

6.3.3.1.3 Interoperable standards

6.3.3.1.4 Digital twin integration

6.3.3.2 Impact on business dynamics

**6.3.4 ADVANCEMENTS IN CONTROL, PROTECTION, AND COMMUNICATION SYSTEMS**

6.3.4.1 Control, protection, and communication system advancements

6.3.4.1.1 Advanced fault detection and isolation

6.3.4.1.2 Cybersecurity integration

6.3.4.1.3 IoT-driven communication architecture

6.3.4.2 Impact on overall business

**6.3.5 INTEGRATION AND SYSTEM-LEVEL INNOVATIONS**

6.3.5.1 DC-coupled and hybrid architectures

6.3.5.2 Standardization and modular design

6.3.5.3 Enhanced safety and thermal management

6.3.5.4 Factory-integrated systems (plug-and-play)

## **7 MAJOR INPUT ENERGY SOURCES RELATED TO BESS**

7.1 INTRODUCTION

7.2 INPUT ENERGY SOURCES

7.2.1 SOLAR PANELS

7.2.2 WIND TURBINES

7.2.3 GRID POWER

7.2.4 DIESEL GENERATORS

7.2.5 OTHER SOURCES

## **8 BESS IMPLEMENTATION TYPES AND COMPARATIVE ANALYSIS OF BATTERY TECHNOLOGIES**

8.1 INTRODUCTION

8.2 KEY IMPLEMENTATION TYPES OF BATTERY ENERGY STORAGE SYSTEMS

8.2.1 FRONT-OF-THE-METER (FTM) SYSTEMS

8.2.2 BEHIND-THE-METER (BTM) SYSTEMS

8.3 COMPARATIVE ANALYSIS OF BATTERY TECHNOLOGIES

8.4 COMPARATIVE ANALYSIS OF ENERGY STORAGE SYSTEMS

## **9 KEY BESS BUSINESS MODELS**

9.1 INTRODUCTION

9.2 DIRECT OWNERSHIP MODEL

9.3 THIRD-PARTY OWNERSHIP MODEL

9.4 HYBRID OWNERSHIP MODEL

9.5 ENERGY STORAGE-AS-A-SERVICE (ESAAS) MODEL

9.6 AGGREGATION AND VIRTUAL POWER PLANT (VPP) MODEL

9.7 UTILITY CONTRACTING AND ANCILLARY SERVICE MODEL

9.8 COMMUNITY AND COOPERATIVE OWNERSHIP MODEL

## **10 BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE**

10.1 INTRODUCTION

10.2 LITHIUM-ION BATTERY

10.2.1 HIGH ENERGY DENSITY AND EFFICIENCY TO FOSTER SEGMENTAL GROWTH

10.3 ADVANCED LEAD-ACID BATTERY

10.3.1 EXTENSIVE ADOPTION FOR GRID ENERGY STORAGE TO BOOST DEMAND

10.4 FLOW BATTERY

10.4.1 TECHNICAL ADVANTAGES OVER CONVENTIONAL BATTERIES TO AUGMENT SEGMENTAL GROWTH

10.5 SODIUM-ION BATTERY

10.5.1 EMERGENCE AS COST-EFFECTIVE AND SUSTAINABLE ALTERNATIVE TO LITHIUM-ION BATTERIES TO FUEL SEGMENTAL GROWTH

## **11 BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE**

11.1 INTRODUCTION

11.2 ON-GRID

11.2.1 RISING FOCUS ON PREVENTING GRID CONGESTION AND STORING SURPLUS ENERGY TO ACCELERATE SEGMENTAL GROWTH

11.3 OFF-GRID

11.3.1 GROWING EMPHASIS ON PROVIDING ENERGY IN REMOTE AREAS TO EXPEDITE SEGMENTAL GROWTH

## **12 BATTERY ENERGY STORAGE SYSTEM MARKET, BY OWNERSHIP**

### 12.1 INTRODUCTION

### 12.2 CUSTOMER-OWNED

12.2.1 REDUCED ELECTRICITY COSTS IN RESIDENTIAL APPLICATIONS TO DRIVE MARKET

### 12.3 THIRD-PARTY-OWNED

12.3.1 ABILITY TO SUPPLY ENERGY TO DISTRIBUTION NETWORKS DURING HIGH-PEAK DEMAND TO FOSTER SEGMENTAL GROWTH

### 12.4 UTILITY-OWNED

12.4.1 RISE IN DEMAND FOR RENEWABLE ENERGY SOURCES TO BOLSTER SEGMENTAL GROWTH

## **13 BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY**

### 13.1 INTRODUCTION

### 13.2 BELOW 30 KWH

13.2.1 ESCALATING ADOPTION IN RESIDENTIAL AND SMALL COMMERCIAL SETTINGS TO CONTRIBUTE TO SEGMENTAL GROWTH

### 13.3 10 KWH–10 MWH

13.3.1 INCREASING USAGE TO MANAGE UNCERTAINTIES IN POWER SYSTEMS TO BOOST SEGMENTAL GROWTH

### 13.4 ABOVE 10 MWH

13.4.1 RISING DEPLOYMENT IN LARGE-SCALE UTILITY AND GRID APPLICATIONS TO FUEL SEGMENTAL GROWTH

## **14 BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION**

### 14.1 INTRODUCTION

### 14.2 RESIDENTIAL

14.2.1 GOVERNMENT INITIATIVES ENCOURAGING RESIDENTIAL ENERGY STORAGE TO FACILITATE SEGMENTAL GROWTH

### 14.3 COMMERCIAL & INDUSTRIAL

14.3.1 MOUNTING DEMAND FOR UPS SYSTEMS FOR DATA CENTERS, FACTORIES, AND CRITICAL INFRASTRUCTURE TO DRIVE MARKET

### 14.4 UTILITY

14.4.1 STRONG FOCUS ON REDUCING COSTS AND ENHANCING ENERGY STORAGE AND SUPPLY TO AUGMENT TO SEGMENTAL GROWTH

## **15 BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION**

### 15.1 INTRODUCTION

### 15.2 NORTH AMERICA

#### 15.2.1 MACROECONOMIC OUTLOOK FOR NORTH AMERICA

#### 15.2.2 US

15.2.2.1 Growing emphasis on reducing dependence on fossil fuels to accelerate market growth

#### 15.2.3 CANADA

15.2.3.1 Government investments and tax credits for battery technology development to drive market

#### 15.2.4 MEXICO

15.2.4.1 Strong commitment to clean energy generation and emission reduction to bolster market growth

### 15.3 EUROPE

#### 15.3.1 MACROECONOMIC OUTLOOK FOR EUROPE

#### 15.3.2 GERMANY

15.3.2.1 Growing focus on power generation using renewable energy to boost market growth

#### 15.3.3 UK

15.3.3.1 Increasing investment in renewable electricity generation technologies to foster market growth

#### 15.3.4 FRANCE

15.3.4.1 Rising emphasis on reducing nuclear power generation to fuel market growth

#### 15.3.5 ITALY

15.3.5.1 Strong commitment to decarbonization to contribute to market growth

#### 15.3.6 REST OF EUROPE

### 15.4 ASIA PACIFIC

#### 15.4.1 MACROECONOMIC OUTLOOK FOR ASIA PACIFIC

#### 15.4.2 CHINA

15.4.2.1 Rising population and electricity demand to drive market

#### 15.4.3 JAPAN

15.4.3.1 Increasing investment in solar and wind energy projects to accelerate market growth

#### 15.4.4 SOUTH KOREA

15.4.4.1 Mounting adoption of energy storage systems to stabilize electrical grids to expedite market growth

#### 15.4.5 AUSTRALIA

15.4.5.1 High commitment to enhancing grid reliability and integrating renewable energy to bolster market growth

#### 15.4.6 INDIA

15.4.6.1 Increasing target to achieve net-zero carbon emissions to fuel market growth

15.4.6.2 Recent strategic developments accelerate India's lithium-ion battery market growth

15.4.6.3 Emerging battery powerhouses: India's gigafactory map

#### 15.4.7 REST OF ASIA PACIFIC

#### 15.5 ROW

##### 15.5.1 MACROECONOMIC OUTLOOK FOR ROW

##### 15.5.2 MIDDLE EAST

15.5.2.1 Increasing investment in renewable energy projects to facilitate market growth

15.5.2.2 GCC countries

15.5.2.3 Rest of Middle East

##### 15.5.3 AFRICA

15.5.3.1 Mounting electricity demand due to climatic conditions to drive market

##### 15.5.4 SOUTH AMERICA

15.5.4.1 Rising focus on mitigating risk of power shortages to support market growth

## 16 COMPETITIVE LANDSCAPE

### 16.1 OVERVIEW

### 16.2 KEY PLAYER STRATEGIES/RIGHT TO WIN, 2021–2025

### 16.3 REVENUE ANALYSIS, 2020–2024

### 16.4 MARKET SHARE ANALYSIS, 2024

### 16.5 COMPANY VALUATION AND FINANCIAL METRICS

### 16.6 BRAND/PRODUCT COMPARISON

### 16.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024

#### 16.7.1 STARS

#### 16.7.2 EMERGING LEADERS

#### 16.7.3 PERVASIVE PLAYERS

#### 16.7.4 PARTICIPANTS

#### 16.7.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024

16.7.5.1 Company footprint

16.7.5.2 Region footprint

16.7.5.3 Battery type footprint

16.7.5.4 Application footprint

16.7.5.5 Connection type footprint

16.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024

16.8.1 PROGRESSIVE COMPANIES

16.8.2 RESPONSIVE COMPANIES

16.8.3 DYNAMIC COMPANIES

16.8.4 STARTING BLOCKS

16.8.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024

16.8.5.1 Detailed list of key startups/SMEs

16.8.5.2 Competitive benchmarking of key startups/SMEs

16.9 COMPETITIVE SCENARIO

16.9.1 PRODUCT LAUNCHES

16.9.2 DEALS

16.9.3 OTHER DEVELOPMENTS

## **17 COMPANY PROFILES**

17.1 KEY PLAYERS

17.1.1 TESLA

17.1.1.1 Business overview

17.1.1.2 Products/Solutions/Services offered

17.1.1.3 MnM view

17.1.1.3.1 Key strengths/Right to win

17.1.1.3.2 Strategic choices

17.1.1.3.3 Weaknesses/Competitive threats

17.1.2 SUNGROW

17.1.2.1 Business overview

17.1.2.2 Products/Solutions/Services offered

17.1.2.3 Recent developments

17.1.2.3.1 Product launches

17.1.2.3.2 Deals

17.1.2.4 MnM view

17.1.2.4.1 Key strengths/Right to win

17.1.2.4.2 Strategic choices

17.1.2.4.3 Weaknesses/Competitive threats

17.1.3 BYD COMPANY LTD.

17.1.3.1 Business overview

17.1.3.2 Products/Solutions/Services offered

17.1.3.3 Recent developments

17.1.3.3.1 Deals

- 17.1.3.4 MnM view
  - 17.1.3.4.1 Key strengths/Right to win
  - 17.1.3.4.2 Strategic choices
  - 17.1.3.4.3 Weaknesses/Competitive threats
- 17.1.4 LG ENERGY SOLUTION
  - 17.1.4.1 Business overview
  - 17.1.4.2 Products/Solutions/Services offered
  - 17.1.4.3 Recent developments
    - 17.1.4.3.1 Product launches
    - 17.1.4.3.2 Deals
    - 17.1.4.3.3 Other developments
  - 17.1.4.4 MnM view
    - 17.1.4.4.1 Key strengths/Right to win
    - 17.1.4.4.2 Strategic choices
    - 17.1.4.4.3 Weaknesses/Competitive threats
- 17.1.5 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED
  - 17.1.5.1 Business overview
  - 17.1.5.2 Products/Solutions/Services offered
  - 17.1.5.3 Recent developments
    - 17.1.5.3.1 Product launches
    - 17.1.5.3.2 Deals
  - 17.1.5.4 MnM view
    - 17.1.5.4.1 Key strengths/Right to win
    - 17.1.5.4.2 Strategic choices
    - 17.1.5.4.3 Weaknesses/Competitive threats
- 17.1.6 SAMSUNG SDI
  - 17.1.6.1 Business overview
  - 17.1.6.2 Products/Solutions/Services offered
  - 17.1.6.3 Recent developments
    - 17.1.6.3.1 Product launches
- 17.1.7 ABB
  - 17.1.7.1 Business overview
  - 17.1.7.2 Products/Solutions/Services offered
  - 17.1.7.3 Recent developments
    - 17.1.7.3.1 Deals
    - 17.1.7.3.2 Other developments
- 17.1.8 AB VOLVO
  - 17.1.8.1 Business overview
  - 17.1.8.2 Products/Solutions/Services offered

- 17.1.9 DELTA ELECTRONICS, INC.
  - 17.1.9.1 Business overview
  - 17.1.9.2 Products/Solutions/Services offered
- 17.1.10 GE VERNOVA
  - 17.1.10.1 Business overview
  - 17.1.10.2 Products/Solutions/Services offered
  - 17.1.10.3 Recent developments
    - 17.1.10.3.1 Product launches
    - 17.1.10.3.2 Deals
- 17.1.11 GOTION
  - 17.1.11.1 Business overview
  - 17.1.11.2 Products/Solutions/Services offered
  - 17.1.11.3 Recent developments
    - 17.1.11.3.1 Deals
- 17.1.12 HONEYWELL INTERNATIONAL INC.
  - 17.1.12.1 Business overview
  - 17.1.12.2 Products/Solutions/Services offered
  - 17.1.12.3 Recent developments
    - 17.1.12.3.1 Developments
- 17.1.13 NGK INSULATORS, LTD.
  - 17.1.13.1 Business overview
  - 17.1.13.2 Products/Solutions/Services offered
  - 17.1.13.3 Recent developments
    - 17.1.13.3.1 Product launches
    - 17.1.13.3.2 Deals
- 17.1.14 PANASONIC CORPORATION
  - 17.1.14.1 Business overview
  - 17.1.14.2 Products/Solutions/Services offered
  - 17.1.14.3 Recent developments
    - 17.1.14.3.1 Product launches
- 17.1.15 SIEMENS ENERGY
  - 17.1.15.1 Business overview
  - 17.1.15.2 Products/Solutions/Services offered
- 17.1.16 TOSHIBA CORPORATION
  - 17.1.16.1 Business overview
  - 17.1.16.2 Products/Solutions/Services offered
- 17.2 OTHER PLAYERS
  - 17.2.1 THE AES CORPORATION
  - 17.2.2 TRINASOLAR

- 17.2.3 AEG
- 17.2.4 EAST PENN MANUFACTURING COMPANY
- 17.2.5 ESS TECH, INC.
- 17.2.6 FARADION
- 17.2.7 KORE POWER INC.
- 17.2.8 PRIMUS POWER SOLUTIONS
- 17.2.9 SAFT
- 17.2.10 VRB ENERGY

## **18 APPENDIX**

- 18.1 INSIGHTS FROM INDUSTRY EXPERTS
- 18.2 DISCUSSION GUIDE
- 18.3 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 18.4 CUSTOMIZATION OPTIONS
- 18.5 RELATED REPORTS
- 18.6 AUTHOR DETAILS

## List Of Tables

### LIST OF TABLES

TABLE 1 BATTERY ENERGY STORAGE SYSTEM MARKET: INCLUSIONS AND EXCLUSIONS

TABLE 2 BATTERY ENERGY STORAGE SYSTEM MARKET: SUMMARY OF CHANGES

TABLE 3 MAJOR SECONDARY SOURCES

TABLE 4 PRIMARY INTERVIEW PARTICIPANTS

TABLE 5 DATA CAPTURED FROM PRIMARY SOURCES

TABLE 6 BATTERY ENERGY STORAGE SYSTEM MARKET: RISK ANALYSIS

TABLE 7 ROLE OF COMPANIES IN BATTERY ENERGY STORAGE SYSTEM ECOSYSTEM

TABLE 8 CHARACTERISTICS OF TECHNOLOGIES DEPLOYED IN BATTERY ENERGY STORAGE SYSTEMS

TABLE 9 LIST OF PATENTS, 2023–2025

TABLE 10 IMPORT DATA FOR HS CODE 850650-COMPLIANT PRODUCTS, BY COUNTRY, 2020–2024 (USD MILLION)

TABLE 11 EXPORT DATA FOR HS CODE 850650-COMPLIANT PRODUCTS, BY COUNTRY, 2020–2024 (USD MILLION)

TABLE 12 LIST OF KEY CONFERENCES AND EVENTS, 2025–2026

TABLE 13 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 16 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 17 REGULATIONS AND STANDARDS

TABLE 18 IMPACT OF PORTER'S FIVE FORCES ANALYSIS

TABLE 19 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY APPLICATION (%)

TABLE 20 KEY BUYING CRITERIA, BY APPLICATION

TABLE 21 PRICING RANGE OF BATTERY PACKS, BY BATTERY TYPE, 2024 (USD/KWH)

TABLE 22 AVERAGE SELLING PRICE TREND OF LITHIUM-ION BATTERY PACKS, 2021–2024 (USD/KWH)

TABLE 23 AVERAGE SELLING PRICE OF LITHIUM-ION BATTERY PACKS

PROVIDED BY KEY PLAYERS, 2024 (USD)

TABLE 24 AVERAGE SELLING PRICE TREND OF LITHIUM-ION BATTERIES, BY REGION, 2021–2024 (USD/KWH)

TABLE 25 US-ADJUSTED RECIPROCAL TARIFF RATES

TABLE 26 KEY PRODUCT-RELATED TARIFF EFFECTIVE FOR LITHIUM-ION BATTERY MARKET

TABLE 27 EXPECTED CHANGE IN PRICES AND LIKELY IMPACT ON END-USE MARKET DUE TO 2025 US TARIFF

TABLE 28 TYPES OF BATTERY TECHNOLOGIES

TABLE 29 TYPES OF ENERGY STORAGE SYSTEMS

TABLE 30 COMPARISON BETWEEN LITHIUM-ION, LITHIUM-COBALT, LITHIUM-MANGANESE, AND LEAD-ACID BATTERIES

TABLE 31 BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2021–2024 (USD BILLION)

TABLE 32 BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2025–2030 (USD BILLION)

TABLE 33 LITHIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY INSTALLED CAPACITY, 2021–2024 (GWH)

TABLE 34 LITHIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY INSTALLED CAPACITY, 2025–2030 (GWH)

TABLE 35 LITHIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 36 LITHIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 37 LITHIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2021–2024 (USD BILLION)

TABLE 38 LITHIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2025–2030 (USD BILLION)

TABLE 39 LITHIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 40 LITHIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 41 LITHIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2021–2024 (USD BILLION)

TABLE 42 LITHIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2025–2030 (USD BILLION)

TABLE 43 ADVANCED LEAD-ACID BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 44 ADVANCED LEAD-ACID BATTERY: BATTERY ENERGY STORAGE

SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 45 ADVANCED LEAD-ACID BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2021–2024 (USD BILLION)

TABLE 46 ADVANCED LEAD-ACID BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2025–2030 (USD BILLION)

TABLE 47 ADVANCED LEAD-ACID BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 48 ADVANCED LEAD-ACID BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 49 ADVANCED LEAD-ACID BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2021–2024 (USD BILLION)

TABLE 50 ADVANCED LEAD-ACID BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2025–2030 (USD BILLION)

TABLE 51 FLOW BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 52 FLOW BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 53 FLOW BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2021–2024 (USD BILLION)

TABLE 54 FLOW BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2025–2030 (USD BILLION)

TABLE 55 FLOW BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 56 FLOW BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 57 FLOW BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2021–2024 (USD BILLION)

TABLE 58 FLOW BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2025–2030 (USD BILLION)

TABLE 59 SODIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 60 SODIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 61 SODIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2021–2024 (USD BILLION)

TABLE 62 SODIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2025–2030 (USD BILLION)

TABLE 63 SODIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 64 SODIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 65 SODIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2021–2024 (USD BILLION)

TABLE 66 SODIUM-ION BATTERY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2025–2030 (USD BILLION)

TABLE 67 BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 68 BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 69 ON-GRID: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2021–2024 (USD BILLION)

TABLE 70 ON-GRID: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2025–2030 (USD BILLION)

TABLE 71 ON-GRID: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2021–2024 (USD BILLION)

TABLE 72 ON-GRID: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2025–2030 (USD BILLION)

TABLE 73 OFF-GRID: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2021–2024 (USD BILLION)

TABLE 74 OFF-GRID: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2025–2030 (USD BILLION)

TABLE 75 OFF-GRID: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2021–2024 (USD BILLION)

TABLE 76 OFF-GRID: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2025–2030 (USD BILLION)

TABLE 77 BATTERY ENERGY STORAGE SYSTEM MARKET, BY OWNERSHIP, 2021–2024 (USD BILLION)

TABLE 78 BATTERY ENERGY STORAGE SYSTEM MARKET, BY OWNERSHIP, 2025–2030 (USD BILLION)

TABLE 79 CUSTOMER-OWNED: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 80 CUSTOMER-OWNED: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 81 THIRD-PARTY-OWNED: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 82 THIRD-PARTY-OWNED: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 83 UTILITY-OWNED: BATTERY ENERGY STORAGE SYSTEM MARKET, BY

APPLICATION, 2021–2024 (USD BILLION)

TABLE 84 UTILITY-OWNED: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 85 BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2021–2024 (USD BILLION)

TABLE 86 BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2025–2030 (USD BILLION)

TABLE 87 BELOW 30 KWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2021–2024 (USD BILLION)

TABLE 88 BELOW 30 KWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2025–2030 (USD BILLION)

TABLE 89 BELOW 30 KWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 90 BELOW 30 KWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 91 BELOW 30 KWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 92 BELOW 30 KWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 93 30 KWH–10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2021–2024 (USD BILLION)

TABLE 94 30 KWH–10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2025–2030 (USD BILLION)

TABLE 95 30 KWH–10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 96 30 KWH–10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 97 30 KWH–10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 98 30 KWH–10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 99 ABOVE 10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2021–2024 (USD BILLION)

TABLE 100 ABOVE 10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2025–2030 (USD BILLION)

TABLE 101 ABOVE 10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 102 ABOVE 10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 103 ABOVE 10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 104 ABOVE 10 MWH: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 105 BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 106 BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 107 RESIDENTIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2021–2024 (USD BILLION)

TABLE 108 RESIDENTIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2025–2030 (USD BILLION)

TABLE 109 RESIDENTIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 110 RESIDENTIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 111 RESIDENTIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2021–2024 (USD BILLION)

TABLE 112 RESIDENTIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2025–2030 (USD BILLION)

TABLE 113 RESIDENTIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY OWNERSHIP, 2021–2024 (USD BILLION)

TABLE 114 RESIDENTIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY OWNERSHIP, 2025–2030 (USD BILLION)

TABLE 115 RESIDENTIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2021–2024 (USD BILLION)

TABLE 116 RESIDENTIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2025–2030 (USD BILLION)

TABLE 117 COMMERCIAL & INDUSTRIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2021–2024 (USD BILLION)

TABLE 118 COMMERCIAL & INDUSTRIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2025–2030 (USD BILLION)

TABLE 119 COMMERCIAL & INDUSTRIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 120 COMMERCIAL & INDUSTRIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 121 COMMERCIAL & INDUSTRIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2021–2024 (USD BILLION)

TABLE 122 COMMERCIAL & INDUSTRIAL: BATTERY ENERGY STORAGE SYSTEM

MARKET, BY ENERGY CAPACITY, 2025–2030 (USD BILLION)

TABLE 123 COMMERCIAL & INDUSTRIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY OWNERSHIP, 2021–2024 (USD BILLION)

TABLE 124 COMMERCIAL & INDUSTRIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY OWNERSHIP, 2025–2030 (USD BILLION)

TABLE 125 COMMERCIAL & INDUSTRIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2021–2024 (USD BILLION)

TABLE 126 COMMERCIAL & INDUSTRIAL: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2025–2030 (USD BILLION)

TABLE 127 UTILITY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2021–2024 (USD BILLION)

TABLE 128 UTILITY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE, 2025–2030 (USD BILLION)

TABLE 129 UTILITY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2021–2024 (USD BILLION)

TABLE 130 UTILITY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY CONNECTION TYPE, 2025–2030 (USD BILLION)

TABLE 131 UTILITY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2021–2024 (USD BILLION)

TABLE 132 UTILITY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY, 2025–2030 (USD BILLION)

TABLE 133 UTILITY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY OWNERSHIP, 2021–2024 (USD BILLION)

TABLE 134 UTILITY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY OWNERSHIP, 2025–2030 (USD BILLION)

TABLE 135 UTILITY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2021–2024 (USD BILLION)

TABLE 136 UTILITY: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2025–2030 (USD BILLION)

TABLE 137 BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2021–2024 (USD BILLION)

TABLE 138 BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2025–2030 (USD BILLION)

TABLE 139 NORTH AMERICA: BATTERY ENERGY STORAGE SYSTEM MARKET, BY COUNTRY, 2021–2024 (USD BILLION)

TABLE 140 NORTH AMERICA: BATTERY ENERGY STORAGE SYSTEM MARKET, BY COUNTRY, 2025–2030 (USD BILLION)

TABLE 141 NORTH AMERICA: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 142 NORTH AMERICA: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 143 US: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 144 US: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 145 CANADA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 146 CANADA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 147 MEXICO: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 148 MEXICO: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 149 EUROPE: BATTERY ENERGY STORAGE SYSTEM MARKET, BY COUNTRY, 2021–2024 (USD BILLION)

TABLE 150 EUROPE: BATTERY ENERGY STORAGE SYSTEM MARKET, BY COUNTRY, 2025–2030 (USD BILLION)

TABLE 151 EUROPE: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 152 EUROPE: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 153 GERMANY: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 154 GERMANY: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 155 UK: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 156 UK: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 157 FRANCE: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 158 FRANCE: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 159 ITALY: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 160 ITALY: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 161 REST OF EUROPE: BATTERY ENERGY STORAGE SYSTEM, BY

APPLICATION, 2021–2024 (USD BILLION)

TABLE 162 REST OF EUROPE: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 163 ASIA PACIFIC: BATTERY ENERGY STORAGE SYSTEM MARKET, BY COUNTRY, 2021–2024 (USD BILLION)

TABLE 164 ASIA PACIFIC: BATTERY ENERGY STORAGE SYSTEM MARKET, BY COUNTRY, 2025–2030 (USD BILLION)

TABLE 165 ASIA PACIFIC: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 166 ASIA PACIFIC: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 167 CHINA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 168 CHINA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 169 JAPAN: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 170 JAPAN: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 171 SOUTH KOREA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 172 SOUTH KOREA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 173 AUSTRALIA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 174 AUSTRALIA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 175 INDIA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 176 INDIA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 177 REST OF ASIA PACIFIC: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 178 REST OF ASIA PACIFIC: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 179 ROW: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2021–2024 (USD BILLION)

TABLE 180 ROW: BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION, 2025–2030 (USD BILLION)

TABLE 181 MIDDLE EAST: BATTERY ENERGY STORAGE SYSTEM MARKET, BY COUNTRY, 2021–2024 (USD BILLION)

TABLE 182 MIDDLE EAST: BATTERY ENERGY STORAGE SYSTEM MARKET, BY COUNTRY, 2025–2030 (USD BILLION)

TABLE 183 ROW: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 184 ROW: BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 185 MIDDLE EAST: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 186 MIDDLE EAST: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 187 AFRICA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 188 AFRICA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 189 SOUTH AMERICA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2021–2024 (USD BILLION)

TABLE 190 SOUTH AMERICA: BATTERY ENERGY STORAGE SYSTEM, BY APPLICATION, 2025–2030 (USD BILLION)

TABLE 191 BATTERY ENERGY STORAGE SYSTEM MARKET: OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS, JANUARY 2021–SEPTEMBER 2025

TABLE 192 BATTERY ENERGY STORAGE SYSTEM MARKET: DEGREE OF COMPETITION, 2024

TABLE 193 BATTERY ENERGY STORAGE SYSTEM MARKET: REGION FOOTPRINT

TABLE 194 BATTERY ENERGY STORAGE SYSTEM MARKET: BATTERY TYPE FOOTPRINT

TABLE 195 BATTERY ENERGY STORAGE SYSTEM MARKET: APPLICATION FOOTPRINT

TABLE 196 BATTERY ENERGY STORAGE SYSTEM MARKET: CONNECTION TYPE FOOTPRINT

TABLE 197 BATTERY ENERGY STORAGE SYSTEM MARKET: DETAILED LIST OF KEY STARTUPS/SMES

TABLE 198 BATTERY ENERGY STORAGE SYSTEM MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES, 2024

TABLE 199 BATTERY ENERGY STORAGE SYSTEM MARKET: PRODUCT LAUNCHES, JANUARY 2021–SEPTEMBER 2025

TABLE 200 BATTERY ENERGY STORAGE SYSTEM MARKET: DEALS, JANUARY

2021–SEPTEMBER 2025

TABLE 201 BATTERY ENERGY STORAGE SYSTEM MARKET: OTHER DEVELOPMENTS, JANUARY 2021–SEPTEMBER 2025

TABLE 202 TESLA: COMPANY OVERVIEW

TABLE 203 TESLA: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 204 SUNGROW: COMPANY OVERVIEW

TABLE 205 SUNGROW: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 206 SUNGROW: PRODUCT LAUNCHES

TABLE 207 SUNGROW: DEALS

TABLE 208 BYD COMPANY LTD.: COMPANY OVERVIEW

TABLE 209 BYD COMPANY LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 210 BYD COMPANY LTD.: DEALS

TABLE 211 LG ENERGY SOLUTION: COMPANY OVERVIEW

TABLE 212 LG ENERGY SOLUTION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 213 LG ENERGY SOLUTION: PRODUCT LAUNCHES

TABLE 214 LG ENERGY SOLUTION: DEALS

TABLE 215 LG ENERGY SOLUTION: OTHER DEVELOPMENTS

TABLE 216 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED: COMPANY OVERVIEW

TABLE 217 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 218 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED: PRODUCT LAUNCHES

TABLE 219 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED: DEALS

TABLE 220 SAMSUNG SDI: COMPANY OVERVIEW

TABLE 221 SAMSUNG SDI: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 222 SAMSUNG SDI: PRODUCT LAUNCHES

TABLE 223 ABB: COMPANY OVERVIEW

TABLE 224 ABB: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 225 ABB: DEALS

TABLE 226 ABB: OTHER DEVELOPMENTS

TABLE 227 AB VOLVO: COMPANY OVERVIEW

TABLE 228 AB VOLVO: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 229 DELTA ELECTRONICS, INC.: COMPANY OVERVIEW

TABLE 230 DELTA ELECTRONICS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 231 GE VERNOVA: COMPANY OVERVIEW

TABLE 232 GE VERNOVA: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 233 GE VERNOVA: PRODUCT LAUNCHES

TABLE 234 GE VERNOVA: DEALS

TABLE 235 GOTION: COMPANY OVERVIEW

TABLE 236 GOTION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 237 GOTION: DEALS

TABLE 238 HONEYWELL INTERNATIONAL INC.: COMPANY OVERVIEW

TABLE 239 HONEYWELL INTERNATIONAL INC.:  
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 240 HONEYWELL INTERNATIONAL INC.: DEVELOPMENTS

TABLE 241 NGK INSULATORS, LTD.: COMPANY OVERVIEW

TABLE 242 NGK INSULATORS, LTD.: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

TABLE 243 NGK INSULATORS, LTD.: PRODUCT LAUNCHES

TABLE 244 NGK INSULATORS, LTD.: DEALS

TABLE 245 PANASONIC CORPORATION: COMPANY OVERVIEW

TABLE 246 PANASONIC CORPORATION: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

TABLE 247 PANASONIC CORPORATION: PRODUCT LAUNCHES

TABLE 248 SIEMENS ENERGY: COMPANY OVERVIEW

TABLE 249 SIEMENS ENERGY: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 250 TOSHIBA CORPORATION COMPANY OVERVIEW

TABLE 251 TOSHIBA CORPORATION: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

TABLE 252 THE AES CORPORATION: COMPANY OVERVIEW

TABLE 253 TRINASOLAR: COMPANY OVERVIEW

TABLE 254 AEG: COMPANY OVERVIEW

TABLE 255 EAST PENN MANUFACTURING COMPANY: COMPANY OVERVIEW

TABLE 256 ESS TECH, INC.: COMPANY OVERVIEW

TABLE 257 FARADION: COMPANY OVERVIEW

TABLE 258 KORE POWER, INC.: COMPANY OVERVIEW

TABLE 259 PRIMUS POWER SOLUTIONS: COMPANY OVERVIEW

TABLE 260 SAFT: COMPANY OVERVIEW

TABLE 261 VRB ENERGY: COMPANY OVERVIEW

## List Of Figures

### LIST OF FIGURES

FIGURE 1 BATTERY ENERGY STORAGE SYSTEM MARKET SEGMENTATION AND REGIONAL SCOPE

FIGURE 2 DURATION COVERED

FIGURE 3 BATTERY ENERGY STORAGE SYSTEM MARKET: RESEARCH DESIGN

FIGURE 4 BATTERY ENERGY STORAGE SYSTEM MARKET: RESEARCH APPROACH

FIGURE 5 DATA CAPTURED FROM SECONDARY SOURCES

FIGURE 6 CORE FINDINGS FROM INDUSTRY EXPERTS

FIGURE 7 BREAKDOWN OF PRIMARY INTERVIEWS, BY COMPANY TYPE, DESIGNATION, AND REGION

FIGURE 8 BATTERY ENERGY STORAGE SYSTEM MARKET: TOP-DOWN APPROACH

FIGURE 9 BATTERY ENERGY STORAGE SYSTEM MARKET: BOTTOM-UP APPROACH

FIGURE 10 BATTERY ENERGY STORAGE SYSTEM MARKET SIZE ESTIMATION METHODOLOGY (SUPPLY SIDE)

FIGURE 11 BATTERY ENERGY STORAGE SYSTEM MARKET: DATA TRIANGULATION

FIGURE 12 BATTERY ENERGY STORAGE SYSTEM MARKET: RESEARCH ASSUMPTIONS

FIGURE 1 BATTERY ENERGY STORAGE SYSTEM MARKET SIZE, 2021–2030

FIGURE 2 LITHIUM-ION BATTERY SEGMENT TO RECORD LARGEST MARKET SHARE IN 2025

FIGURE 3 ON-GRID SEGMENT TO ACCOUNT FOR LARGER MARKET SHARE IN 2030

FIGURE 4 UTILITY SEGMENT TO DOMINATE BATTERY ENERGY STORAGE SYSTEM MARKET BETWEEN 2025 AND 2030

FIGURE 5 ASIA PACIFIC TO REGISTER HIGHEST CAGR IN BATTERY ENERGY STORAGE SYSTEM MARKET DURING FORECAST PERIOD

FIGURE 6 INCREASING ADOPTION OF RENEWABLE ENERGY SOURCES TO FOSTER MARKET GROWTH

FIGURE 7 LITHIUM-ION BATTERY TYPE SEGMENT TO HOLD LARGEST MARKET SHARE IN 2030

FIGURE 8 ABOVE 10 MWH SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE IN 2030

FIGURE 9 UTILITY APPLICATION SEGMENT AND CHINA TO HOLD LARGEST

SHARES OF ASIA PACIFIC BATTERY ENERGY STORAGE SYSTEM MARKET IN 2030

FIGURE 10 INDIA TO EXHIBIT HIGHEST CAGR IN GLOBAL BATTERY ENERGY STORAGE SYSTEM MARKET FROM 2025 TO 2030

FIGURE 11 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 12 IMPACT ANALYSIS: DRIVERS

FIGURE 13 IMPACT ANALYSIS: RESTRAINTS

FIGURE 14 IMPACT ANALYSIS: OPPORTUNITIES

FIGURE 15 IMPACT ANALYSIS: CHALLENGES

FIGURE 16 TRENDS/DISRUPTIONS INFLUENCING CUSTOMER BUSINESS

FIGURE 17 VALUE CHAIN ANALYSIS

FIGURE 18 BATTERY ENERGY STORAGE SYSTEM ECOSYSTEM

FIGURE 19 INVESTMENT AND FUNDING SCENARIO, 2020–2024

FIGURE 20 PATENTS APPLIED AND GRANTED, 2015–2024

FIGURE 21 IMPORT DATA FOR HS CODE 850650-COMPLIANT PRODUCTS FOR TOP FIVE COUNTRIES, 2020–2024

FIGURE 22 EXPORT DATA FOR HS CODE 850650-COMPLIANT PRODUCTS FOR TOP FIVE COUNTRIES, 2020–2024

FIGURE 23 PORTER'S FIVE FORCES ANALYSIS

FIGURE 24 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY APPLICATION

FIGURE 25 KEY BUYING CRITERIA, BY APPLICATION

FIGURE 26 AVERAGE SELLING PRICE TREND OF LITHIUM-ION BATTERY PACKS, 2021–2024

FIGURE 27 AVERAGE SELLING PRICE OF LITHIUM-ION BATTERY PACKS OFFERED BY KEY PLAYERS, 2024

FIGURE 28 AVERAGE SELLING PRICE TREND OF LITHIUM-ION BATTERIES IN VARIOUS REGIONS, 2021–2024

FIGURE 29 KEY AI/GEN AI USE CASES IN BATTERY ENERGY STORAGE SYSTEM MARKET

FIGURE 30 BATTERY ENERGY STORAGE SYSTEM MARKET, BY BATTERY TYPE

FIGURE 31 LITHIUM-ION BATTERY SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

FIGURE 32 IMPORTANCE OF BATTERY ENERGY STORAGE SYSTEMS IN GRID CONNECTIONS

FIGURE 33 APPLICATIONS OF BATTERY ENERGY STORAGE SYSTEMS IN GRIDS

FIGURE 34 ON-GRID CONNECTIONS SEGMENT TO REGISTER HIGHER CAGR FROM 2025 TO 2030

FIGURE 35 ON-GRID CONNECTIONS

FIGURE 36 BASIC OFF-GRID SYSTEMS

FIGURE 37 BATTERY ENERGY STORAGE SYSTEM MARKET, BY OWNERSHIP

FIGURE 38 UTILITY-OWNED SEGMENT TO CAPTURE LARGEST MARKET SHARE IN 2030

FIGURE 39 LAYOUT OF BATTERY ENERGY STORAGE SYSTEM INSTALLATION IN RESIDENTIAL AREAS

FIGURE 40 BATTERY ENERGY STORAGE SYSTEM MARKET, BY ENERGY CAPACITY

FIGURE 41 ABOVE 10 MWH SEGMENT TO REGISTER HIGHEST CAGR BETWEEN 2025 AND 2030

FIGURE 42 BATTERY ENERGY STORAGE SYSTEM MARKET, BY APPLICATION

FIGURE 43 UTILITY SEGMENT TO BE LARGEST-GROWING SEGMENT IN 2030

FIGURE 44 TESLA POWERWALL INSTALLED FOR RESIDENTIAL APPLICATIONS

FIGURE 45 BATTERY ENERGY STORAGE SYSTEM MARKET, BY REGION

FIGURE 46 INDIA TO REGISTER HIGHEST CAGR IN GLOBAL BATTERY ENERGY STORAGE SYSTEM MARKET BETWEEN 2025 AND 2030

FIGURE 47 NORTH AMERICA: BATTERY ENERGY STORAGE SYSTEM MARKET SNAPSHOT

FIGURE 48 US TO DOMINATE MARKET DURING FORECAST PERIOD

FIGURE 49 EUROPE: BATTERY ENERGY STORAGE SYSTEM MARKET SNAPSHOT

FIGURE 50 GERMANY TO DOMINATE EUROPEAN BATTERY ENERGY STORAGE SYSTEM MARKET FROM 2025 TO 2030

FIGURE 51 ASIA PACIFIC: BATTERY ENERGY STORAGE SYSTEM MARKET SNAPSHOT

FIGURE 52 INDIA TO EXHIBIT AT HIGHEST CAGR IN ASIA PACIFIC BATTERY ENERGY STORAGE SYSTEM MARKET DURING FORECAST PERIOD

FIGURE 53 SOUTH AMERICA TO HOLD LARGEST MARKET SHARE IN ROW DURING FORECAST PERIOD

FIGURE 54 BATTERY ENERGY STORAGE SYSTEM MARKET: REVENUE ANALYSIS OF TOP FIVE PLAYERS, 2020–2024

FIGURE 55 MARKET SHARE ANALYSIS OF COMPANIES OFFERING BATTERY ENERGY STORAGE SYSTEMS, 2024

FIGURE 56 COMPANY VALUATION

FIGURE 57 FINANCIAL METRICS (EV/EBITDA)

FIGURE 58 BRAND/PRODUCT COMPARISON

FIGURE 59 BATTERY ENERGY STORAGE SYSTEM MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2024

FIGURE 60 BATTERY ENERGY STORAGE SYSTEM MARKET: COMPANY

**FOOTPRINT**

**FIGURE 61 BATTERY ENERGY STORAGE SYSTEM MARKET: COMPANY EVALUATION MATRIX (STARTUPS/SMES), 2024**

**FIGURE 62 TESLA: COMPANY SNAPSHOT**

**FIGURE 63 SUNGROW: COMPANY SNAPSHOT**

**FIGURE 64 BYD COMPANY LTD.: COMPANY SNAPSHOT**

**FIGURE 65 LG ENERGY SOLUTION: COMPANY SNAPSHOT**

**FIGURE 66 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED: COMPANY SNAPSHOT**

**FIGURE 67 SAMSUNG SDI: COMPANY SNAPSHOT**

**FIGURE 68 ABB: COMPANY SNAPSHOT**

**FIGURE 69 AB VOLVO: COMPANY SNAPSHOT**

**FIGURE 70 DELTA ELECTRONICS, INC.: COMPANY SNAPSHOT**

**FIGURE 71 GE VERNOVA: COMPANY SNAPSHOT**

**FIGURE 72 GOTION: COMPANY SNAPSHOT**

**FIGURE 73 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT**

**FIGURE 74 NGK INSULATORS, LTD.: COMPANY SNAPSHOT**

**FIGURE 75 PANASONIC CORPORATION: COMPANY SNAPSHOT**

**FIGURE 76 SIEMENS ENERGY: COMPANY SNAPSHOT**

**FIGURE 77 TOSHIBA CORPORATION: COMPANY SNAPSHOT**

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