

Global Mobile Energy Storage Systems Market Size study, by Capacity (Below 3,000 KWh, 3,000-10,000 KWh, Above 10,000 KWh), by Classification (Towable Systems, Float-in, Others), by Battery Type (Lithium-ion, Lead-acid, Nickel-cadmium, Others), by System (Off-grid, On-grid), by Application (Commercial, Industrial, Residential) and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GB8642826BD8EN.html>

Date: August 2024

Pages: 200

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

ID: GB8642826BD8EN

Abstracts

Global mobile energy storage systems market is valued approximately at USD 5.3 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 10.6% over the forecast period 2024-2032. Mobile energy storage systems present a versatile solution to address energy needs during crises as well as in residential and commercial spaces. These systems are increasingly utilized in EV charging stations, remote construction sites, and outdoor events, offering substantial economic benefits over stationary storage solutions. Not only are they cost-effective, reliable, and resilient, but they also contribute to reduced environmental impact. Policymakers are now crafting regulatory frameworks to support the grid-scale deployment of these systems, promoting electric mobility and decreasing reliance on imported fossil fuels. Leading market players are intensifying their R&D efforts to broaden their global presence in this burgeoning field.

The Global mobile energy storage systems market is experiencing significant growth driven by the increasing demand for renewable energy integration, advancements in battery technologies, and supportive government policies aimed at reducing carbon emissions and enhancing energy security. Mobile energy storage systems offer a

flexible and scalable solution for storing and distributing renewable energy, thereby improving grid stability and reliability, especially during natural disasters and power outages. However, the market faces challenges such as high initial costs, regulatory inconsistencies, and technical limitations related to energy density and performance. Despite these hurdles, emerging markets present lucrative opportunities due to rapid urbanization and rising energy needs. Additionally, the integration of mobile energy storage systems with electric vehicles and ongoing technological innovations in battery efficiency and smart grid technologies are expected to drive further market expansion.

The key regions considered in the study include Asia Pacific, North America, Europe, Latin America, and the Middle East and Africa. The Asia-Pacific region is currently dominating the global mobile energy storage systems market. This dominance can be attributed to several factors, including the rapid industrialization and urbanization in countries such as China, India, and Japan, which have led to increased energy demands. Additionally, the region's strong focus on renewable energy adoption, supported by substantial government investments and favorable policies, has accelerated the deployment of energy storage solutions. China, in particular, has emerged as a key player due to its extensive manufacturing capabilities and significant advancements in battery technology. Moreover, the growing need for reliable and efficient energy storage systems to support the integration of renewable energy sources and to ensure grid stability in the face of frequent natural disasters has further bolstered the market in this region. As a result, Asia-Pacific continues to lead in both the production and deployment of mobile energy storage systems.

Major market player included in this report are:

Quanta Technology
Power Edison
Socomec
Hamedata Technology
Renewable Energy Systems Ltd
NEC Corporation
Aggreko
Jauch Quartz America, Inc.
Delta Electronics
Nomad Transportable Power System
Greener Power Solutions
Alfen

Tesla, Inc.
LG Chem
Panasonic Corporation

The detailed segments and sub-segment of the market are explained below:

By Capacity

Below 3,000 KWh
3,000-10,000 KWh
Above 10,000 KWh

By Classification

Towable Systems
Float-in
Others

By Battery Type

Lithium-ion
Lead-acid
Nickel-cadmium
Others

By System

Off-grid
On-grid

By Application

Commercial
Industrial
Residential

By Region:

North America
U.S.
Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL MOBILE ENERGY STORAGE SYSTEMS MARKET EXECUTIVE SUMMARY

- 1.1. Global Mobile Energy Storage Systems Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Capacity
 - 1.3.2. By Classification
 - 1.3.3. By Battery Type
 - 1.3.4. By System
 - 1.3.5. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL MOBILE ENERGY STORAGE SYSTEMS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL MOBILE ENERGY STORAGE SYSTEMS MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Rise in Investments in Renewable Energy
- 3.1.2. Decline in Cost of Batteries
- 3.1.3. Increase in Power Consumption

3.2. Market Challenges

- 3.2.1. High Initial Costs
- 3.2.2. Technical Limitations
- 3.2.3. Regulatory Barriers

3.3. Market Opportunities

- 3.3.1. Technological Advancements in Battery Efficiency
- 3.3.2. Expansion in Emerging Markets
- 3.3.3. Government Initiatives and Funding

CHAPTER 4. GLOBAL MOBILE ENERGY STORAGE SYSTEMS MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL MOBILE ENERGY STORAGE SYSTEMS MARKET SIZE & FORECASTS BY CAPACITY 2022-2032

5.1. Segment Dashboard

5.2. Global Mobile Energy Storage Systems Market: Capacity Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Below 3,000 KWh

5.2.2. 3,000-10,000 KWh

5.2.3. Above 10,000 KWh

CHAPTER 6. GLOBAL MOBILE ENERGY STORAGE SYSTEMS MARKET SIZE & FORECASTS BY CLASSIFICATION 2022-2032

6.1. Segment Dashboard

6.2. Global Mobile Energy Storage Systems Market: Classification Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Towable Systems

6.2.2. Float-in

6.2.3. Others

CHAPTER 7. GLOBAL MOBILE ENERGY STORAGE SYSTEMS MARKET SIZE & FORECASTS BY BATTERY TYPE 2022-2032

7.1. Segment Dashboard

7.2. Global Mobile Energy Storage Systems Market: Battery Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Lithium-ion

7.2.2. Lead-acid

7.2.3. Nickel-cadmium

7.2.4. Others

CHAPTER 8. GLOBAL MOBILE ENERGY STORAGE SYSTEMS MARKET SIZE & FORECASTS BY SYSTEM 2022-2032

8.1. Segment Dashboard

8.2. Global Mobile Energy Storage Systems Market: System Revenue Trend Analysis, 2022 & 2032 (USD Billion)

8.2.1. Off-grid

8.2.2. On-grid

CHAPTER 9. GLOBAL MOBILE ENERGY STORAGE SYSTEMS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

9.1. Segment Dashboard

9.2. Global Mobile Energy Storage Systems Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

9.2.1. Commercial

9.2.2. Industrial

9.2.3. Residential

CHAPTER 10. GLOBAL MOBILE ENERGY STORAGE SYSTEMS MARKET SIZE & FORECASTS BY REGION 2022-2032

10.1. North America Mobile Energy Storage Systems Market

10.1.1. U.S. Mobile Energy Storage Systems Market

10.1.1.1. Capacity breakdown size & forecasts, 2022-2032

10.1.1.2. Classification breakdown size & forecasts, 2022-2032

10.1.1.3. Battery Type breakdown size & forecasts, 2022-2032

10.1.1.4. System breakdown size & forecasts, 2022-2032

10.1.1.5. Application breakdown size & forecasts, 2022-2032

10.1.2. Canada Mobile Energy Storage Systems Market

10.1.2.1. Capacity breakdown size & forecasts, 2022-2032

10.1.2.2. Classification breakdown size & forecasts, 2022-2032

10.1.2.3. Battery Type breakdown size & forecasts, 2022-2032

10.1.2.4. System breakdown size & forecasts, 2022-2032

10.1.2.5. Application breakdown size & forecasts, 2022-2032

10.2. Europe Mobile Energy Storage Systems Market

10.2.1. U.K. Mobile Energy Storage Systems Market

10.2.2. Germany Mobile Energy Storage Systems Market

10.2.3. France Mobile Energy Storage Systems Market

10.2.4. Spain Mobile Energy Storage Systems Market

10.2.5. Italy Mobile Energy Storage Systems Market

10.2.6. Rest of Europe Mobile Energy Storage Systems Market

10.3. Asia-Pacific Mobile Energy Storage Systems Market

10.3.1. China Mobile Energy Storage Systems Market

10.3.2. India Mobile Energy Storage Systems Market

- 10.3.3. Japan Mobile Energy Storage Systems Market
- 10.3.4. Australia Mobile Energy Storage Systems Market
- 10.3.5. South Korea Mobile Energy Storage Systems Market
- 10.3.6. Rest of Asia Pacific Mobile Energy Storage Systems Market
- 10.4. Latin America Mobile Energy Storage Systems Market
 - 10.4.1. Brazil Mobile Energy Storage Systems Market
 - 10.4.2. Mexico Mobile Energy Storage Systems Market
 - 10.4.3. Rest of Latin America Mobile Energy Storage Systems Market
- 10.5. Middle East & Africa Mobile Energy Storage Systems Market
 - 10.5.1. Saudi Arabia Mobile Energy Storage Systems Market
 - 10.5.2. South Africa Mobile Energy Storage Systems Market
 - 10.5.3. Rest of Middle East & Africa Mobile Energy Storage Systems Market

CHAPTER 11. COMPETITIVE INTELLIGENCE

- 11.1. Key Company SWOT Analysis
 - 11.1.1. Company
 - 11.1.2. Company
 - 11.1.3. Company
- 11.2. Top Market Strategies
- 11.3. Company Profiles
 - 11.3.1. Quanta Technology
 - 11.3.1.1. Key Information
 - 11.3.1.2. Overview
 - 11.3.1.3. Financial (Subject to Data Availability)
 - 11.3.1.4. Product Summary
 - 11.3.1.5. Market Strategies
 - 11.3.2. Power Edison
 - 11.3.3. Socomec
 - 11.3.4. Hamedata Technology
 - 11.3.5. Renewable Energy Systems Ltd
 - 11.3.6. NEC Corporation
 - 11.3.7. Aggreko
 - 11.3.8. Jauch Quartz America, Inc.
 - 11.3.9. Delta Electronics
 - 11.3.10. Nomad Transportable Power System
 - 11.3.11. Greener Power Solutions
 - 11.3.12. Alfen
 - 11.3.13. Tesla, Inc.

11.3.14. LG Chem

11.3.15. Panasonic Corporation

CHAPTER 12. RESEARCH PROCESS

12.1. Research Process

12.1.1. Data Mining

12.1.2. Analysis

12.1.3. Market Estimation

12.1.4. Validation

12.1.5. Publishing

12.2. Research Attributes

List Of Tables

LIST OF TABLES

- TABLE 1. Global Mobile Energy Storage Systems Market, report scope
- TABLE 2. Global Mobile Energy Storage Systems Market estimates & forecasts by Region 2022-2032 (USD Billion)
- TABLE 3. Global Mobile Energy Storage Systems Market estimates & forecasts by Capacity 2022-2032 (USD Billion)
- TABLE 4. Global Mobile Energy Storage Systems Market estimates & forecasts by Classification 2022-2032 (USD Billion)
- TABLE 5. Global Mobile Energy Storage Systems Market estimates & forecasts by Battery Type 2022-2032 (USD Billion)
- TABLE 6. Global Mobile Energy Storage Systems Market estimates & forecasts by System 2022-2032 (USD Billion)
- TABLE 7. Global Mobile Energy Storage Systems Market estimates & forecasts by Application 2022-2032 (USD Billion)
- TABLE 8. Global Mobile Energy Storage Systems Market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 9. Global Mobile Energy Storage Systems Market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 10. Global Mobile Energy Storage Systems Market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 11. Global Mobile Energy Storage Systems Market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 12. Global Mobile Energy Storage Systems Market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 13. Global Mobile Energy Storage Systems Market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 14. Global Mobile Energy Storage Systems Market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 15. U.S. Mobile Energy Storage Systems Market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 16. U.S. Mobile Energy Storage Systems Market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 17. U.S. Mobile Energy Storage Systems Market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 18. Canada Mobile Energy Storage Systems Market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Mobile Energy Storage Systems Market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 20. Canada Mobile Energy Storage Systems Market estimates & forecasts by segment 2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Mobile Energy Storage Systems Market, research methodology
- FIG 2. Global Mobile Energy Storage Systems Market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Mobile Energy Storage Systems Market, key trends 2023
- FIG 5. Global Mobile Energy Storage Systems Market, growth prospects 2022-2032
- FIG 6. Global Mobile Energy Storage Systems Market, porters 5 force model
- FIG 7. Global Mobile Energy Storage Systems Market, PESTEL analysis
- FIG 8. Global Mobile Energy Storage Systems Market, value chain analysis
- FIG 9. Global Mobile Energy Storage Systems Market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Mobile Energy Storage Systems Market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Mobile Energy Storage Systems Market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Mobile Energy Storage Systems Market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Mobile Energy Storage Systems Market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Mobile Energy Storage Systems Market, regional snapshot 2022 & 2032
- FIG 15. North America Mobile Energy Storage Systems Market 2022 & 2032 (USD Billion)
- FIG 16. Europe Mobile Energy Storage Systems Market 2022 & 2032 (USD Billion)
- FIG 17. Asia Pacific Mobile Energy Storage Systems Market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Mobile Energy Storage Systems Market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Mobile Energy Storage Systems Market 2022 & 2032 (USD Billion)
- FIG 20. Global Mobile Energy Storage Systems Market, company market share analysis (2023)

.....

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

I would like to order

Product name: Global Mobile Energy Storage Systems Market Size study, by Capacity (Below 3,000 KWh, 3,000-10,000 KWh, Above 10,000 KWh), by Classification (Towable Systems, Float-in, Others), by Battery Type (Lithium-ion, Lead-acid, Nickel-cadmium, Others), by System (Off-grid, On-grid), by Application (Commercial, Industrial, Residential) and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/GB8642826BD8EN.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/GB8642826BD8EN.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