

Residential Lithium-ion Batteries Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented by Type (Primary, Rechargeable) and by End-Use Industry (Automotive, Consumer Electronics, Power Tools, Residential, Medical, Others), By Region, Competition 2018-2028.

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Abstracts

Global Residential Lithium-ion Batteries Market has valued at USD 8.37 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 8.47% through 2028.

Key Market Drivers

Advancements in Battery Technology

Advancements in battery technology are serving as a powerful catalyst for driving the growth of the global Residential Lithium-ion Batteries market. These innovative developments are reshaping the landscape of energy storage, offering more efficient, sustainable, and versatile solutions. As a result, breathing batteries, with their unique characteristics and capabilities, are gaining prominence in various industries and applications. One of the key drivers behind the rising significance of battery technology advancements is the continuous quest for higher performance. Consumers and industries alike demand batteries that offer greater energy density, longer cycle life, and faster charging capabilities. Breathing batteries, known for their high energy density and rapid charge/discharge rates, stand out as a promising alternative to traditional lithium-ion batteries.

Electric vehicles (EVs) provide a prime example of how advancements in battery technology are driving the adoption of breathing batteries. The EV market is experiencing exponential growth, and the quest for more efficient and longer-lasting batteries is paramount. Breathing batteries hold the potential to revolutionize this industry by offering extended driving ranges, shorter charging times, and reduced environmental impact. Additionally, renewable energy integration is another arena where battery technology advancements play a pivotal role. As the world transitions toward greener energy sources like wind and solar power, effective energy storage solutions become essential to balance supply and demand. Breathing batteries can store excess energy generated during peak production periods and release it during times of high demand or low energy production, contributing to grid stability and the wider adoption of renewable energy.

Furthermore, research and development efforts are uncovering new materials and chemistries that enhance the performance and safety of breathing batteries. Breakthroughs in nanotechnology and materials science are paving the way for lighter, more durable, and cost-effective battery components. This translates to reduced production costs and broader market accessibility. Advancements in battery technology are also spurring innovation in aerospace, defense, and medical sectors. The lightweight and high-energy-density characteristics of breathing batteries make them appealing for applications such as unmanned aerial vehicles (UAVs), military equipment, and medical devices, where long-lasting, reliable power sources are critical. In conclusion, the global Residential Lithium-ion Batteries market is witnessing significant growth, thanks to the relentless pursuit of advancements in battery technology. These innovations are not only addressing the increasing demand for high-performance and sustainable energy storage but also expanding the range of applications where breathing batteries can excel. As research continues and these technologies mature, breathing batteries are poised to play an even more prominent role in shaping the future of energy storage solutions worldwide.

Increased Demand for Portable Power

The increased demand for portable power is emerging as a significant driving force behind the rapid growth of the global Residential Lithium-ion Batteries market. In today's fast-paced world, the reliance on portable electronic devices has become ubiquitous, spanning from smartphones and laptops to wearable gadgets and beyond. As these devices become more advanced and power-hungry, the need for compact and efficient energy sources has intensified, paving the way for breathing batteries to shine as a promising solution. One of the primary factors fueling this demand for portable power is

the ever-expanding ecosystem of consumer electronics. The global populace's dependence on smartphones for communication, entertainment, and even business operations has grown exponentially. Additionally, wearable devices, such as smartwatches and fitness trackers, have gained widespread popularity, adding to the need for reliable and long-lasting power sources. Breathing batteries, with their impressive energy density and lightweight characteristics, are ideally suited to address these requirements.

Moreover, the ongoing miniaturization trend in consumer electronics necessitates batteries that can deliver high energy in smaller form factors. Breathing batteries, designed to be more compact while offering competitive energy storage capabilities, align perfectly with this trend. This makes them an attractive choice for device manufacturers looking to create sleek and efficient products. Environmental concerns are another crucial factor driving the adoption of breathing batteries. With a growing emphasis on sustainability and reducing carbon emissions, the industry is seeking cleaner and more environmentally friendly energy storage solutions. Breathing batteries often utilize materials that are less harmful to the environment, making them a greener alternative compared to traditional lithium-ion batteries, which may contain toxic elements. In summary, the increased demand for portable power, driven by the proliferation of consumer electronics and the need for compact, high-capacity energy sources, is propelling the global Residential Lithium-ion Batteries market forward. This technology's potential to provide a sustainable and efficient power solution aligns with the modern world's emphasis on mobility, convenience, and environmental responsibility. As research and development efforts continue to enhance the performance and affordability of breathing batteries, their role in powering our portable electronic devices is poised to expand even further, shaping the future of portable power solutions.

Key Market Challenges

Scalability and Mass Production

The scalability and mass production of breathing batteries represent a critical challenge that could potentially impede the growth of the global Residential Lithium-ion Batteries market. While these batteries offer promising advantages in terms of energy density, safety, and sustainability, achieving large-scale production at an affordable cost is essential for widespread adoption. Several factors contribute to the challenge of scalability and mass production in the context of breathing batteries, **Complex Manufacturing Processes:** Breathing batteries often require intricate manufacturing

processes that involve specialized materials and precise assembly techniques. These complexities can slow down production and increase the likelihood of defects, making it challenging to scale up efficiently.

Materials Availability: The materials used in breathing batteries, such as solid electrolytes or unique electrode materials, may have limited availability or be expensive to source in large quantities. This can hinder mass production efforts and drive-up costs. **Quality Control:** Maintaining consistent quality across a large volume of breathing batteries is essential to ensure their safety and performance. Rigorous quality control measures must be implemented to identify and rectify defects, which can be resource intensive.

Production Equipment: Scaling up battery production often requires significant investments in specialized equipment. Manufacturers may need to retrofit or build new facilities to accommodate the unique requirements of Residential Lithium-ion Batteries production. **Cost Challenges:** Achieving economies of scale is critical for reducing the cost of breathing batteries. The initial stages of production may be cost-prohibitive, making it challenging for breathing batteries to compete with established battery technologies in terms of pricing.

Time-Consuming Research: Developing and optimizing the manufacturing processes for breathing batteries can be time-consuming. Extensive research and development efforts are required to streamline production and overcome manufacturing hurdles. **Environmental Considerations:** Sustainability concerns in battery production are on the rise. Ensuring that the manufacturing processes for breathing batteries are environmentally friendly and energy-efficient adds an additional layer of complexity to scaling up production. **Market Competition:** Breathing batteries face stiff competition from established battery technologies like lithium-ion, which benefit from mature supply chains and established production processes. Convincing manufacturers to invest in the development of Residential Lithium-ion Batteries production facilities can be challenging in this competitive landscape.

Regulatory Compliance: Meeting regulatory standards and safety certifications for mass-produced breathing batteries is crucial. Navigating the complex regulatory landscape can be time-consuming and costly. Addressing these challenges will require collaborative efforts from researchers, manufacturers, and industry stakeholders. It will also necessitate significant investments in research and development, process optimization, and infrastructure development. As the technology matures and more experience is gained in scaling up production, breathing batteries may become more

competitive and accessible. However, successfully achieving scalability and mass production is a critical hurdle that must be overcome for breathing batteries to realize their potential and gain broader acceptance in various industries and applications.

Charging Infrastructure

Charging infrastructure presents a significant challenge that could potentially hamper the growth of the global Residential Lithium-ion Batteries market. While breathing batteries offer promising advantages in terms of energy density and fast charging capabilities, they rely on a well-developed and compatible charging infrastructure to unlock their full potential. Here are several reasons why charging infrastructure can be a bottleneck for the adoption of breathing batteries, **Compatibility Issues:** Breathing batteries may require different charging protocols, connectors, or voltage levels compared to conventional lithium-ion batteries. Incompatibility with existing charging infrastructure can lead to logistical challenges and discourage users from adopting breathing batteries.

Investment and Deployment Costs: Building a robust charging infrastructure is a significant investment for governments, businesses, and individuals. Adapting or creating new charging stations tailored for breathing batteries can be costly and time-consuming, potentially deterring potential adopters. **Limited Availability:** In many regions, charging infrastructure for traditional batteries, such as lithium-ion, is already well-established, making it readily accessible to consumers. Residential Lithium-ion Batteries charging infrastructure may lag behind in availability and convenience, making it less attractive to users.

Consumer Convenience: The convenience of charging plays a crucial role in consumer adoption. Users may be reluctant to switch to breathing batteries if they perceive a lack of readily available charging stations, especially for applications like electric vehicles where range anxiety is a concern. **Standardization Challenges:** Establishing industry standards for Residential Lithium-ion Batteries charging can be complex, involving multiple stakeholders and regulatory bodies. Delays or disagreements in the standardization process can hinder the development of a uniform and interoperable charging infrastructure.

Regulatory Hurdles: Regulations and safety standards for charging infrastructure may need to be updated or adapted to accommodate the unique characteristics of breathing batteries. Navigating the regulatory landscape can be time-consuming and may slow down infrastructure development. **Market Competition:** Established battery technologies,

such as lithium-ion, have a head start in terms of charging infrastructure. Breathing batteries face stiff competition in trying to gain a foothold in a market where competitors have already invested heavily in charging networks.

Consumer Education: Educating consumers about the benefits and usage of breathing batteries and their associated charging infrastructure is crucial. A lack of awareness can lead to resistance and slow adoption rates. Despite these challenges, the growth of the global Residential Lithium-ion Batteries market is not insurmountable. Strategic planning, collaboration among industry stakeholders, government incentives, and investments in charging infrastructure development can help address these issues. Over time, as more Residential Lithium-ion Batteries-powered applications gain traction, and as charging infrastructure expands and matures, the adoption of breathing batteries is likely to become more feasible and widespread. Nonetheless, these challenges must be carefully managed to ensure the successful integration of breathing batteries into various industries and applications.

Key Market Trends

Rise of Electric Vehicles (EVs)

The rise of Electric Vehicles (EVs) is emerging as a compelling driver for the global Residential Lithium-ion Batteries market. As the automotive industry undergoes a profound transformation toward electrification, the demand for advanced energy storage solutions that can power EVs efficiently and sustainably has surged. Breathing batteries are gaining prominence as a promising technology to address the unique requirements of electric vehicles, and this trend is reshaping the future of the automotive industry. Breathing batteries offer several key advantages that make them well-suited for EVs. Their high energy density allows for longer driving ranges on a single charge, addressing a crucial concern for consumers. Additionally, the rapid charge and discharge capabilities of breathing batteries can significantly reduce charging times, enhancing the convenience and practicality of EVs.

Range anxiety, a common concern for potential EV buyers, is alleviated by breathing batteries' ability to store more energy, extending the distance a vehicle can travel before needing a recharge. This not only enhances the appeal of electric vehicles but also aligns with the broader goal of reducing greenhouse gas emissions and dependence on fossil fuels. Moreover, breathing batteries are often considered safer and more environmentally friendly than traditional lithium-ion batteries, which is particularly appealing as safety standards for electric vehicles continue to evolve.

As automakers and researchers continue to invest in the development and commercialization of breathing batteries for electric vehicles, it is expected that this trend will play a pivotal role in shaping the global battery market. The widespread adoption of breathing batteries in the EV sector could drive innovation, lower production costs, and further accelerate the transition toward a greener and more sustainable transportation ecosystem, making electric vehicles more accessible and attractive to consumers worldwide.

Wearable and Portable Electronics

The growing market for wearable and portable electronics is emerging as a significant driving force behind the global Residential Lithium-ion Batteries market. As technology continues to advance, the demand for smaller, lighter, and more energy-efficient power sources has surged, making breathing batteries an increasingly attractive solution for powering these devices. Wearable devices, including smartwatches, fitness trackers, and medical wearables, have become integral parts of modern life, offering features like health monitoring, communication, and data tracking. However, the limited battery life of these devices has been a persistent challenge. Breathing batteries, with their high energy density and lightweight characteristics, are well-suited to address this issue by extending the runtime of wearables between charges.

Portable electronics, such as smartphones, tablets, and wireless earbuds, also benefit from the advantages of breathing batteries. These devices have become essential for communication, work, and entertainment, but users often face the inconvenience of frequent recharging. Breathing batteries can offer longer usage times, reducing the need for constant recharging and enhancing the overall user experience. The trend towards miniaturization in electronics, driven by consumer preferences for sleek and compact devices, further amplifies the appeal of breathing batteries. Their compact form factor allows manufacturers to design smaller and lighter gadgets without compromising on battery performance.

As consumer demand for wearables and portable electronics continues to grow, so does the demand for energy-dense, long-lasting, and lightweight power solutions. Breathing batteries are positioned to meet these requirements, making them an ideal fit for the expanding market of wearable and portable electronic devices. In conclusion, the proliferation of wearables and portable electronics is propelling the global Residential Lithium-ion Batteries market forward. These batteries not only enhance the usability and convenience of these devices but also align with the broader trend toward sustainable

and efficient energy solutions. As the wearable and portable electronics market continues to thrive, the demand for breathing batteries is expected to rise, driving innovation and further integration of this technology into various consumer electronics applications.

Segmental Insights

End-use Industry Insights

By end-use industry, the automotive segment dominated the largest market share in 2022 due In the early years of the lithium-ion battery industry, the consumer electronics sector was the major consumer of batteries. But in recent years, electric vehicle (EV) manufacturers have become the biggest consumers of lithium-ion batteries, owing to the growing sales of EVs.

EVs do not emit CO₂, NO_x, or any other greenhouse gases and hence, have a lower environmental impact compared to conventional internal combustion engine (ICE) vehicles. Due to this advantage, many countries are encouraging the use of EVs by introducing subsidies and government programs.

Regional Insights

The Asia Pacific region has established itself as the leader in the Global Residential Lithium-ion Batteries Market with a significant revenue share in 2022. The Asia-Pacific region dominated the market in 2021. With the increasing deployment of electric vehicles in countries such as China and India and the high demand for electronics with urbanization and increasing power purchase parity, the usage of lithium-ion batteries is expected to witness significant growth in the region.

A significant fraction of Asia-Pacific's population is estimated to be living without access to electricity and is dependent on conventional fuels, such as kerosene and diesel, for their lighting and mobile phone charging needs. Lithium-ion battery integrated energy storage solutions are likely to witness an increasing adoption rate due to the technical benefits associated with it and declining lithium-ion battery prices. This, in turn, is expected to create a significant number of opportunities for li-ion battery manufacturers in the near future.

Key Market Players

Panasonic Corporation

BYD Co. Ltd

GS Yuasa International Ltd.

TSECH Co.

LG Chem

ReLieVe

Hitachi Chemical Company Ltd.

Samsung SDI

Exide Technologies

Robert Bosch GmbH

Report Scope:

In this report, the Global Residential Lithium-ion Batteries Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Residential Lithium-ion Batteries Market, By Type:

Primary

Rechargeable

Global Residential Lithium-ion Batteries Market, By End-use Industry:

Automotive

Consumer Electronics

Power Tools

Residential

Medical

Others

Global Residential Lithium-ion Batteries Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

Egypt

UAE

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Residential Lithium-ion Batteries Market.

Available Customizations:

Global Residential Lithium-ion Batteries Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.3. Markets Covered
- 1.4. Years Considered for Study
- 1.5. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMERS

5. GLOBAL RESIDENTIAL LITHIUM-ION BATTERIES MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Primary, Rechargeable)
 - 5.2.2. By End-use Industry (Automotive, Consumer Electronics, Power Tools, Residential, Medical, Others)
 - 5.2.3. By Region
- 5.3. By Company (2022)
- 5.4. Market Map

6. NORTH AMERICA RESIDENTIAL LITHIUM-ION BATTERIES MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By End-use Industry

6.2.3. By Country

6.3. North America: Country Analysis

6.3.1. United States Residential Lithium-ion Batteries Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By End-use Industry

6.3.2. Canada Residential Lithium-ion Batteries Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Type

6.3.2.2.2. By End-use Industry

6.3.3. Mexico Residential Lithium-ion Batteries Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Type

6.3.3.2.2. By End-use Industry

7. ASIA-PACIFIC RESIDENTIAL LITHIUM-ION BATTERIES MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. B By Type

7.2.2. By End-use Industry

7.2.3. By Country

7.3. Asia-Pacific: Country Analysis

7.3.1. China Residential Lithium-ion Batteries Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

- 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By End-use Industry
- 7.3.2. India Residential Lithium-ion Batteries Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By End-use Industry
- 7.3.3. Japan Residential Lithium-ion Batteries Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By End-use Industry
- 7.3.4. South Korea Residential Lithium-ion Batteries Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By End-use Industry
- 7.3.5. Indonesia Residential Lithium-ion Batteries Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By End-use Industry

8. EUROPE RESIDENTIAL LITHIUM-ION BATTERIES MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By End-use Industry
 - 8.2.3. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. Germany Residential Lithium-ion Batteries Market Outlook
 - 8.3.1.1. Market Size & Forecast

- 8.3.1.1.1. By Value
- 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By End-use Industry
- 8.3.2. United Kingdom Residential Lithium-ion Batteries Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By End-use Industry
- 8.3.3. France Residential Lithium-ion Batteries Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By End-use Industry
- 8.3.4. Russia Residential Lithium-ion Batteries Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By End-use Industry
- 8.3.5. Spain Residential Lithium-ion Batteries Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By End-use Industry

9. SOUTH AMERICA RESIDENTIAL LITHIUM-ION BATTERIES MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By End-use Industry
 - 9.2.3. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Residential Lithium-ion Batteries Market Outlook

- 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By End-use Industry
- 9.3.2. Argentina Residential Lithium-ion Batteries Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By End-use Industry

10. MIDDLE EAST & AFRICA RESIDENTIAL LITHIUM-ION BATTERIES MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By End-use Industry
 - 10.2.3. By Country
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Saudi Arabia Residential Lithium-ion Batteries Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By End-use Industry
 - 10.3.2. South Africa Residential Lithium-ion Batteries Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By End-use Industry
 - 10.3.3. UAE Residential Lithium-ion Batteries Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type

- 10.3.3.2.2. By End-use Industry
- 10.3.4. Israel Residential Lithium-ion Batteries Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Type
 - 10.3.4.2.2. By End-use Industry
- 10.3.5. Egypt Residential Lithium-ion Batteries Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Type
 - 10.3.5.2.2. By End-use Industry

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenge

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

- 13.1. Panasonic Corporation
 - 13.1.1. Business Overview
 - 13.1.2. Key Revenue and Financials
 - 13.1.3. Recent Developments
 - 13.1.4. Key Personnel
 - 13.1.5. Key Product/Services
- 13.2. BYD Co. Ltd
 - 13.2.1. Business Overview
 - 13.2.2. Key Revenue and Financials
 - 13.2.3. Recent Developments
 - 13.2.4. Key Personnel
 - 13.2.5. Key Product/Services
- 13.3. GS Yuasa International Ltd.
 - 13.3.1. Business Overview
 - 13.3.2. Key Revenue and Financials

- 13.3.3. Recent Developments
- 13.3.4. Key Personnel
- 13.3.5. Key Product/Services
- 13.4. TSECH Co.
 - 13.4.1. Business Overview
 - 13.4.2. Key Revenue and Financials
 - 13.4.3. Recent Developments
 - 13.4.4. Key Personnel
 - 13.4.5. Key Product/Services
- 13.5. LG Chem
 - 13.5.1. Business Overview
 - 13.5.2. Key Revenue and Financials
 - 13.5.3. Recent Developments
 - 13.5.4. Key Personnel
 - 13.5.5. Key Product/Services
- 13.6. ReLieVe
 - 13.6.1. Business Overview
 - 13.6.2. Key Revenue and Financials
 - 13.6.3. Recent Developments
 - 13.6.4. Key Personnel
 - 13.6.5. Key Product/Services
- 13.7. Hitachi Chemical Company Ltd.
 - 13.7.1. Business Overview
 - 13.7.2. Key Revenue and Financials
 - 13.7.3. Recent Developments
 - 13.7.4. Key Personnel
 - 13.7.5. Key Product/Services
- 13.8. Samsung SDI
 - 13.8.1. Business Overview
 - 13.8.2. Key Revenue and Financials
 - 13.8.3. Recent Developments
 - 13.8.4. Key Personnel
 - 13.8.5. Key Product/Services
- 13.9. Exide Technologies
 - 13.9.1. Business Overview
 - 13.9.2. Key Revenue and Financials
 - 13.9.3. Recent Developments
 - 13.9.4. Key Personnel
 - 13.9.5. Key Product/Services

13.10. Robert Bosch GmbH

13.10.1. Business Overview

13.10.2. Key Revenue and Financials

13.10.3. Recent Developments

13.10.4. Key Personnel

13.10.5. Key Product/Services

14. STRATEGIC RECOMMENDATIONS

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