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Primary Lithium Batteries Market Forecasts to 2030 – Global Analysis By Type (Lithium-Thionyl Chloride Batteries, Lithium-Manganese Dioxide Batteries and Other Types), Form Factor (Cylindrical, Coin, Pouch and Prismatic), Battery Capacity, Voltage, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Primary Lithium Batteries Market is accounted for $2.8 billion in 2024 and is expected to reach $3.9 billion by 2030 growing at a CAGR of 5.9% during the forecast period. Lithium batteries, which use lithium as the anode, are essentially non-rechargeable energy storage devices. Their high voltage, long life, and lightweight design ensure a constant voltage, making them ideal for devices that require long-term reliability, such as medical devices and electronics. These batteries come in a variety of chemistries, including lithium manganese dioxide and lithium thionyl chloride, adapted to a specific application. Being single-use, it is environmentally friendly and should be disposed of properly.

According to the U.S. Geological Survey (USGS), global lithium production increased by 23% in 2023 to approximately 180,000 tons.

Market Dynamics:

Driver:

Growing demand for portable electronics

The increasing demand for portable electronics such as smartphones, laptops, and

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wearable devices is a primary driver for the primary lithium batteries market. These devices require lightweight, long-lasting power sources, which lithium batteries provide due to their high energy density and long shelf life. As the proliferation of smart devices continues, the need for reliable and efficient power solutions grows, significantly boosting the market for primary lithium batteries.

Restraint:

High cost

The high cost of primary lithium batteries poses a significant restraint to market growth. These batteries are more expensive compared to other types due to the cost of raw materials like lithium and the complex manufacturing processes involved. This cost factor can limit their adoption in price-sensitive markets or applications where cost efficiency is a priority, thereby restraining overall market expansion.

Opportunity:

Advancements in battery technology

Advancements in battery technology present substantial opportunities for the primary lithium batteries market. Innovations such as improved energy density, faster charging times, and enhanced safety features are driving interest and adoption across various sectors. These technological improvements not only enhance performance but also open new application areas, further expanding market potential.

Threat:

Availability of lithium and the supply chain risks

The availability of lithium and associated supply chain risks pose significant threats to the primary lithium batteries market. The concentration of lithium mining and processing in specific regions can lead to supply disruptions due to geopolitical tensions or regulatory changes. Additionally, environmental concerns related to lithium extraction could impact supply stability, posing a threat to consistent market growth.

Covid-19 Impact:

The COVID-19 pandemic disrupted global supply chains, affecting the production and

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distribution of primary lithium batteries. Lockdowns and restrictions led to reduced manufacturing capacity and delayed shipments, impacting market dynamics. However, as economies recover and production resumes, the demand for portable electronics is expected to rebound, driving renewed growth in the primary lithium batteries market.

The lithium-manganese dioxide batteries segment is expected to be the largest during the forecast period

The lithium-manganese dioxide batteries segment is expected to account for the largest market share during the forecast period due to its widespread use in consumer electronics and medical devices. These batteries offer high energy density and reliability, making them ideal for applications requiring long-lasting power sources. Their dominance is further supported by advancements in battery technology that enhance performance and safety features.

The 1000-2000 mAh segment is expected to have the highest CAGR during the forecast period

The 1000-2000 mAh segment is expected to witness the highest CAGR during the forecast period. This segment caters to a growing demand for mid-range capacity batteries used in portable electronics like smartphones and tablets. The balance between size, power output, and efficiency makes this capacity range attractive for manufacturers aiming to deliver compact yet powerful solutions. As technological advancements enhance battery performance within this range, it is poised for significant growth.

Region with largest share:

The Asia Pacific region is anticipated to account for the largest market share during the forecast period due to rapid industrialization, increasing disposable incomes, and a burgeoning consumer electronics market. Countries like China, Japan, and South Korea are leading producers and consumers of electronic goods, driving demand for primary lithium batteries. The region's strong manufacturing base further supports its dominant position in the global market.

Region with highest CAGR:

The Asia Pacific region is anticipated to register the highest growth rate over the forecast period. Factors such as government initiatives promoting renewable energy

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solutions and electric vehicles contribute to this growth. Additionally, technological advancements in battery manufacturing within this region enhance production efficiency and innovation capacity, fueling further expansion of the primary lithium batteries market.

Key players in the market

Some of the key players in Primary Lithium Batteries Market include Duracell Inc., Energizer Holdings Inc., Panasonic Corporation, Varta AG, SAFT, FDK Corporation, Toshiba Corporation, Ultralife Corporation, Maxell Ltd., Hitachi Maxell, Ltd., GP Industries Ltd., Renata SA, Murata Manufacturing Co., Ltd., Tadiran Batteries GmbH, OmniCel Batteries, EEMB Battery Co., Ltd., EVE Energy Co., Ltd. and Sony Corporation.

Key Developments:

In November 2024, VARTA AG concludes successful ECO2LIB research project: High-performance and more cost-effective lithium-ion batteries for a wide range of applications. The project has led to significant advancements in battery technology, including increased energy density and improved recycling processes.

In August 2024, Energizer Holdings, Inc. announced plans to invest $43 million in expanded manufacturing operations and jobs in Asheboro, North Carolina, over the next several years.

In March 2024, Panasonic Group will form a joint venture with Indian Oil Corporation Ltd (IOCL) to manufacture cylindrical lithium-ion batteries, driven by the anticipated expansion of demand for batteries for two#- #and three-wheel vehicles and energy storage systems in the Indian market. The companies are engaging in a feasibility study regarding the utilization of battery technology to facilitate the transition to clean energy in India.

Types Covered:

- Lithium-Thionyl Chloride Batteries
- Lithium-Manganese Dioxide Batteries
- Lithium-Iodine Batteries

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Lithium-sulfur Dioxide Batteries

Lithium-Iron Disulfide Batteries

Other Types

Form Factors Covered:

Cylindrical

Coin

Pouch

Prismatic

Battery Capacities Covered:

500 mAh

500-1000 mAh

1000-2000 mAh

Above 2000 mAh

Voltages Covered:

3.0 V

3.0-3.6 V

3.6-4.2 V

Above 4.2V

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Applications Covered:

- Consumer Electronics
- Medical Devices
- Aerospace & Defense
- Industrial Equipment
- Smart Meters & Security Systems
- Automotive

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain

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- Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific
- South America
  - Argentina
  - Brazil
  - Chile
  - Rest of South America
- Middle East & Africa
  - Saudi Arabia
  - UAE
  - Qatar
  - South Africa
  - Rest of Middle East & Africa

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What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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