

Submarine Battery Market By Type (Lead-acid batteries, Lithium-ion batteries, Silver-zinc batteries, Nickel-cadmium batteries, Others), By Application (Civil, Military): Global Opportunity Analysis and Industry Forecast, 2024-2033

Market Report | 2024-03-01 | 250 pages | Allied Market Research

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Report description:

The global submarine battery market was valued at \$1.1 billion in 2023, and is projected to reach \$1.8 billion by 2033, registering a CAGR of 4.8% from 2024 to 2033.

The submarine battery market refers to the industry involved in manufacturing, distribution, and maintenance of batteries specifically designed for use in submarines. These batteries are crucial for powering various systems on board submarines, such as propulsion, navigation, communication, and life support. Submarine batteries are typically rechargeable and are often based on advanced technologies such as lead-acid, nickel-cadmium (NiCd), or lithium-ion. The market for submarine batteries is driven by factors such as the modernization and expansion of naval fleets, advancements in submarine technology, and the increasing focus on renewable energy sources for underwater vehicles.

Technological advancements in battery performance play a pivotal role in driving the demand for submarine batteries.

Submarines are anticipated to operate with increased stealth, endurance, and capability as the world's defense environment changes, requiring batteries that can fulfill these demanding requirements. Advancements in battery management systems (BMS) contribute to enhancing overall performance and safety. These systems monitor various parameters such as temperature, voltage, and state of charge to optimize battery operation and prevent potential hazards such as overheating or overcharging. All these factors are expected to drive the demand for submarine battery market during the forecast period.

High initial investment costs represent a significant restraint on the growth of the submarine battery market. The development and acquisition of submarine batteries entail substantial upfront expenses, which can pose challenges for naval organizations and defense contractors, particularly those with constrained budgets. These costs include the procurement of advanced battery technologies as well as the associated infrastructure upgrades and integration efforts required to implement these batteries into submarine systems effectively. Furthermore, high initial investment costs are exacerbated by the specialized nature of submarine batteries. Submarines demand batteries tailored to withstand the rigors of underwater operations, including extreme pressures,

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temperature variations, and prolonged periods of disuse. Meeting these stringent requirements necessitates the use of cutting-edge materials and manufacturing processes, driving up production costs significantly. All these factors hamper the submarine battery market growth.

Rise in demand for unmanned underwater vehicles presents significant opportunities for the submarine battery market.

Unmanned underwater vehicles, which include a variety of underwater drones and autonomous vehicles, are increasingly utilized for a range of applications including oceanographic research, underwater mapping, environmental monitoring, and maritime security operations. Submarine batteries are a critical component of UUVs, providing the power needed to propel these vehicles through the water and operate their onboard systems for extended periods. As the capabilities and applications of UUVs continue to expand, so does the demand for high-performance batteries that can support their missions effectively. All these factors are anticipated to offer new growth opportunities for the submarine battery market during the forecast period.

The submarine battery market is segmented on the basis of type, end-use industry, and region. On the basis of type, the market is divided into lead-acid batteries, lithium-ion batteries, silver-zinc batteries, nickel-cadmium batteries, and others. On the basis of application, the market is segmented into civil and military. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The submarine battery market is segmented on the basis of type, end-use industry, and region. On the basis of type, the market is divided into lead-acid batteries, lithium-ion batteries, silver-zinc batteries, nickel-cadmium batteries, and others. On the basis of application, the market is segmented into civil and military. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA. Lithium-ion batteries segment dominated global submarine battery market share in 2023 and is expected to maintain its dominance during the forecast period. On the basis of application, the market is segmented into civil and military.

The military segment dominated the market in 2023 and is expected to maintain its dominance during the submarine battery market forecast period. Region-wise, the submarine battery market analysis is done across North America, Europe, Asia-Pacific, and LAMEA. Asia-Pacific dominated market in 2023 and is expected to maintain its dominance during the forecast period.

Key players in the submarine battery market include ENERSYS., Ever Exceed Corporation, EXIDE INDUSTRIES LTD, GS Yuasa Corporation, HBL Power Systems Limited, Korea Special Battery Co., Ltd., Kokam Battery., Epsilor-Electric Fuel Ltd., ZIBO TORCH ENERGY CO., LTD., and Toshiba Corporation. Apart from these major players, there are other key players in the submarine battery market. These include LG Chem Ltd., Samsung SDI Co., Ltd., Mitsubishi Electric Corporation, Hindustan Aeronautics Limited (HAL), Rolls-Royce Holdings plc, and General Dynamics Corporation.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the submarine battery market analysis from 2023 to 2033 to identify the prevailing submarine battery market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the submarine battery market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global submarine battery market trends, key players, market segments, application areas, and market growth strategies.

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- Additional company profiles with specific to client's interest
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- List of customers/consumers/raw material suppliers- value chain analysis
- Market share analysis of players at global/region/country level
- SWOT Analysis

Key Market Segments

By Type

- Silver-zinc batteries
- Nickel-cadmium batteries
- Lead-acid batteries
- Lithium-ion batteries
- Others

By Application

- Civil
- Military

By Region

- North America

? U.S.

? Canada

? Mexico

- Europe

? Germany

? UK

? France

? Italy

? Spain

? Rest of Europe

- Asia-Pacific

? China

? Japan

? India

? South Korea

? Australia

? Rest of Asia-Pacific

- LAMEA

? Brazil

? Saudi Arabia

? South Africa

? Rest of Asia-Pacific

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- Key Market Players
- ? EnerSys
- ? Ever Exceed Corporation
- ? EXIDE INDUSTRIES LTD.
- ? GS Yuasa Corporation
- ? HBL POWER SYSTEMS LIMITED
- ? Korea Special Battery Co., Ltd.
- ? Kokam Battery
- ? Epsilor-Electric Fuel Ltd.
- ? ZIBO TORCH ENERGY CO., LTD.
- ? TOSHIBA CORPORATION

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