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Battery Testing, Inspection, and Certification (TIC) Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

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Abstracts

The Global Battery Testing, Inspection, And Certification (TIC) Market was valued at USD 13.6 billion in 2023 and is projected to grow at a CAGR of 7.3% from 2024 to 2032. This growth is primarily driven by the increasing adoption of electric vehicles (EVs). As consumers shift towards eco-friendly transportation options, automakers ramp up EV production, necessitating rigorous battery performance and safety evaluations. This surge in demand for reliable battery testing is encouraging industry players to expand their operations. The market expansion is further bolstered by stringent regulatory requirements across the globe.

Government authorities are implementing safety and performance standards to ensure consumer protection and promote environmental sustainability. Non-compliance with these regulations can lead to fines, recalls, and reputational damage, which, in turn, drives the demand for thorough testing and certification processes. These regulatory pressures also foster innovation in battery technologies, fueling the overall market growth. In terms of services, the market is categorized into testing, inspection, and certification.

In 2023, testing accounted for over 65% of the total market share and is expected to surpass USD 15 billion by 2032. The increasing adoption of energy storage systems (ESS) is a key factor behind this growth. As the demand for renewable energy sources rises, effective energy storage solutions become critical. Advanced battery technologies used in ESS must undergo extensive testing to ensure they can manage energy loads and deliver reliable performance. This growing focus on safety and efficiency drives the demand for comprehensive testing services.

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When it comes to sourcing, the market is divided into in-house and outsourced segments. In 2023, the in-house segment captured around 68% of the market share. Companies invest in internal testing facilities to meet the rising demand for high-performance, safe battery systems. By developing in-house capabilities, manufacturers can accelerate product development, enhance quality control, and shorten time-to-market.

This approach allows companies to quickly optimize battery designs, which is essential in a fast-moving industry. Geographically, Europe held over 35% of the battery TIC market share in 2023 and is expected to exceed USD 7.5 billion by 2032. The region's strong regulatory framework, emphasizing safety, sustainability, and performance standards, is a major growth driver. Strict regulations in Europe, particularly for electric vehicles and renewable energy storage, are compelling manufacturers to undergo comprehensive testing and certification processes to ensure compliance with regional directives, further boosting market demand

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Contents

Report Content

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