Automotive Start-Stop System Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032

Market Report | 2024-08-26 | 250 pages | Global Market Insights

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Report description:

Global automotive start-stop system market was valued at USD 37.8 billion in 2023 and is projected to expand at a CAGR exceeding 11% from 2024 to 2032. The market growth is largely attributed to the introduction of stringent emission regulations. As global governments enforce rigorous emission standards to tackle air pollution and climate change, automakers are increasingly adopting technologies that enhance fuel efficiency and curtail emissions.

Technological innovations in components and control systems have bolstered the performance and reliability of start-stop technology. Enhanced starter motors, cutting-edge batteries like absorbent glass mat (AGM) and lithium-ion, alongside sophisticated control algorithms, facilitate smoother and more efficient engine restarts. These innovations not only mitigate wear and tear on vital components but also address past concerns regarding durability and system performance. To further bolster their offerings, OEMs frequently forge strategic alliances with manufacturers for ensuring the incorporation of top-tier sensors into their vehicles.

The overall industry is divided into component, technology, vehicle, fuel, distribution channel, and region.

The market segments vehicles into two-wheelers, passenger vehicles, and commercial vehicles. The passenger vehicle segment commanded over 70% share in 2023. With a growing focus on fuel efficiency and environmental sustainability, this segment is poised for continued expansion. The start-stop system plays a pivotal role in this growth, as it curtails fuel consumption and greenhouse gas emissions by automatically shutting off the engine when the vehicle is stationary.

Fuel-wise, the market categorizes into diesel, gasoline, CNG, and hybrid segments. The diesel segment was valued at USD 21.9 billion in 2023. The growth of the diesel segment is largely backed by mounting regulatory pressures aimed at emission reductions. Diesel engines, while more fuel-efficient than their gasoline counterparts, emit elevated levels of nitrogen oxides and particulate matter. By minimizing engine idling, start-stop systems not only curtail fuel consumption but also diminish overall emission outputs. Moreover, technological strides in start-stop systems have enhanced their compatibility with diesel engines, alleviating prior concerns about performance and reliability. This synergy with regulatory mandates and technological advancements propels the adoption of start-stop systems in diesel vehicles.

Asia Pacific led the global automotive start-stop system market, holding a share of approximately 30% in 2023. The region's rapid

urbanization and escalating traffic congestion have been primary drivers of this market growth. As urban centers in APAC burgeon and vehicle ownership surges, the resultant traffic congestion leads to prolonged idling periods. Start-stop systems, by curtailing fuel consumption during these idle times, become indispensable in such urban settings. Given the trajectory of urbanization, the demand for start-stop systems in the Asia-Pacific is set to rise, underscoring the region's pursuit of efficient and eco-friendly automotive solutions.

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