

# SLI Battery Market's Start-Stop Technology, Fleet Expansion, and the Road to USD 58.94 Billion by 2035

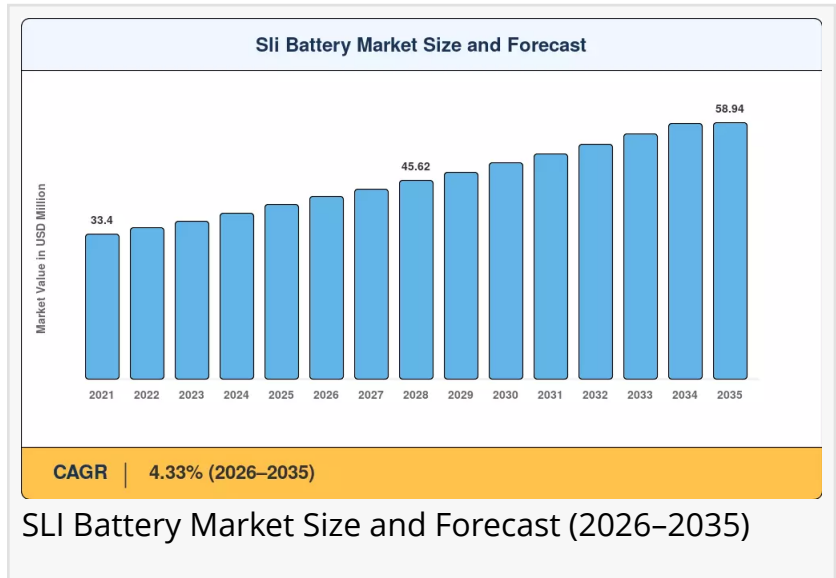
*SLI Battery Market Research Report By Type, By Application, By Voltage, By Capacity, By Shape and By Regional - Forecast to 2035*

NY, CA, UNITED STATES, June 8, 2026 /EINPresswire.com/ -- The world's relationship with starting, lighting, and ignition (SLI) batteries is entering a decade defined by a quiet but consequential technology shift. The flooded lead-acid cell the workhorse beneath the hood of roughly half the global vehicle fleet is steadily yielding ground to absorbed glass mat (AGM) and enhanced flooded battery (EFB) designs capable of tolerating the punishing deep-cycle demands of modern start-stop systems. Meanwhile, vehicle production is resurging across Asia and Latin America, and tightening emission regulations are forcing OEMs to mandate higher-performance battery specifications on every new platform. The market numbers behind this convergence are compelling.

According to Market Research Future (MRFR), the [global SLI Battery Market growth](#) reached an estimated USD 40.17 billion in 2025 and is projected to grow from USD 41.91 billion in 2026 to USD 58.94 billion by 2035, advancing at a CAGR of 4.33% across the forecast window. This steady, structurally anchored trajectory makes the SLI battery one of the most dependable segments in the global automotive supply chain and one whose evolution over the next decade will be shaped by emission policy, electrification dynamics, and a circular-economy regulatory wave simultaneously.

This article breaks down the forces driving that growth, where friction points lie, and which regions and technologies will define the decade ahead, supported by data from authoritative government bodies, international agencies, and industry research institutions.

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## Key Players in the Market

The competitive landscape of the global SLI Battery Market exhibits medium concentration, with the top five players accounting for an estimated 38–45% of global revenue. Competition centers on OEM qualification programs, aftermarket brand recognition, production-cost efficiency, and increasingly, recycling infrastructure depth.

Prominent companies cited across market reports include Clarios (formerly Johnson Controls, United States), GS Yuasa Corporation (Japan), Exide Industries Ltd. (India), EnerSys (United States), East Penn Manufacturing (United States), Amara Raja Energy & Mobility (India), Exide Technologies Americas/EMEA, Furukawa Battery Co. (Japan), Camel Group Co. (China), and Hankook AtlasBX (South Korea). These companies compete on AGM and EFB technology capability, global OEM qualification status, aftermarket brand equity, and closed-loop lead recycling integration.

## The Vehicle Production Engine: The Market's Most Direct Demand Driver

No single factor maps more directly to SLI battery demand than global vehicle production and the 2025 data presents a strongly supportive picture. According to the International Organization of Motor Vehicle Manufacturers (OICA, [oica.net](https://www.oica.net)), global vehicle production rose from 92.7 million units in 2024 to 96.4 million units in 2025, a 3.9% year-on-year increase. Global vehicle sales climbed even more sharply, from 95.3 million to 99.8 million units a 4.7% gain. Every new internal-combustion-engine (ICE) or mild-hybrid vehicle leaving the assembly line requires at least one SLI battery at the point of build, creating a direct, production-indexed demand floor.

The geographic concentration of this growth matters enormously. Production in the Asia-Pacific region rose 7.6% in 2025 to approximately 59.2 million vehicles, accounting for more than 61% of global output. China remained the dominant force, reaching 34.53 million vehicles produced adding roughly 3.25 million units in a single year. New-energy vehicle (NEV) production in China alone reached 16.626 million units, up 29% year-on-year. India emerged as the second major growth story, with production rising to 6.49 million vehicles and record domestic sales of over 4.6 million passenger vehicles and more than 1 million trucks and buses in fiscal year 2025–26.

Europe, by contrast, saw production decline 0.8% year-on-year in 2025, totaling approximately 17.2 million vehicles a reflection of structural competitive pressures and slower demand recovery, particularly in the industrial sector. This regional divergence is critical for understanding where SLI battery demand growth will concentrate through 2035.

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## The Start-Stop Mandate: Regulation Driving a Technology Premium

The demand for AGM and EFB start-stop SLI batteries units that withstand frequent engine restarts and regenerative braking loads has been rising steadily as a direct consequence of CO<sub>2</sub> fleet-average emission regulations. European OEMs now specify AGM or EFB technology in more

than 65% of new vehicle builds, driven by the EU CO<sub>2</sub> fleet target of 93.6 g/km under EU Regulation 2019/631. North American OEMs have followed a similar trajectory: General Motors and Stellantis increased their AGM fitment rates from 30% to more than 55% of their light-truck portfolios between 2022 and 2025.

This regulatory push has a direct financial consequence for the SLI Battery Market: it transforms each vehicle platform from a single flooded battery sale into a higher-value AGM or EFB transaction, typically priced 40–60% above a comparable flooded unit. Per-vehicle battery revenue climbs, even as unit volumes track production levels. According to the European Automobile Manufacturers' Association (ACEA, [acea.auto](https://acea.auto)), there were 256 million cars on EU roads in 2024 a 1.4% increase from the prior year with electrically chargeable vehicles comprising 3.7% of that parc. This means that more than 96% of European in-service vehicles still rely on a conventional 12V SLI battery for starting, lighting, and ignition functions, anchoring a massive and enduring aftermarket replacement base.

#### The EV Transition: Disruption Bounded by Architecture

Any analysis of the SLI Battery Market must squarely address the electric vehicle transition and the picture is more nuanced than a simple substitution narrative suggests. According to the IEA's Global EV Outlook 2025, the share of electric cars in overall global car sales exceeded 40% under current policy settings by 2030 in the Stated Policies Scenario. China is expected to reach an EV sales share of approximately 80% by 2030, while Europe targets close to 60% and the United States approximately 20%.

These figures represent a genuine medium-term constraint on SLI demand growth pure battery electric vehicles (BEVs) eliminate the traditional 12V SLI battery entirely, replacing it with a low-voltage lithium auxiliary cell. In Norway, BEVs already represented 88% of car sales in 2024, meaning the SLI replacement market in that country is compressing faster than anywhere else in the world.

However, two structural features preserve SLI battery demand through 2035 and beyond. First, the global in-service vehicle parc which ACEA estimates at 256 million cars in the EU alone in 2024 turns over slowly. At current scrappage rates, a large proportion of today's ICE vehicles will still be on the road in 2035, each requiring SLI battery replacements every 3–5 years. Second, mild-hybrid 48V architectures projected by the IEA to constitute roughly 25% of global new vehicle sales by 2030 retain a conventional 12V SLI battery alongside the 48V lithium pack. This dual-battery design effectively insulates the SLI Battery Market from the full substitution risk posed by BEVs, adding incremental unit demand in the premium vehicle segment through 2035.

#### Market Segmentation: What the Breakdown Reveals

##### By Battery Type

Flooded batteries retain the dominant revenue share of the SLI Battery Market at approximately 52% of 2025 revenue, underpinned by cost advantages in price-sensitive aftermarket channels.

Their unit cost typically 30–40% below equivalent AGM products makes them the preferred choice across Asia-Pacific, South America, and Africa, where older vehicle platforms dominate the in-service fleet and consumer price sensitivity is high.

VRLA batteries encompassing both AGM and gel sub-types are the fastest-growing segment, at an estimated 5.2% CAGR through 2035. AGM EFB start-stop SLI battery products offer 3–4 times the cycle life of flooded equivalents, justifying a price premium that improves per-unit margins for manufacturers. As ACEA's vehicle-in-use data confirms, European new-car builds are overwhelmingly migrating to AGM or EFB specification, and the aftermarket is following as those vehicles age into the replacement cycle.

EFB batteries occupy a strategic middle ground start-stop compatible at a lower price point than full AGM and are projected to reach approximately USD 8.6 billion in market value by 2035. European automakers have increasingly adopted EFB as the baseline OEM specification for entry-level start-stop platforms, creating a durable mid-tier demand segment.

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#### By End-User

The automotive segment captures more than 82% of SLI Battery Market revenue, spanning passenger cars, light commercial vehicles, heavy trucks, and two-wheelers. Within automotive, the replacement channel generates roughly 58% of revenue a proportion that will grow as the global vehicle parc ages and electrical loads from additional accessories, infotainment, and ADAS systems compress battery service life.

Non-automotive end users agricultural equipment, marine vessels, standby generators, and material-handling vehicles represent a smaller but steadily growing segment, exhibiting a combined CAGR of approximately 4.0% through 2035. India's tractor market alone exceeded 900,000 units sold in FY 2024, each requiring a high cold-cranking-amps (CCA) SLI battery rated above 800 CCA for reliable ignition in extreme field conditions. Marine applications increasingly specify VRLA technology for vibration resistance and maintenance-free operation in commercial and recreational fleets.

The two-wheeler electrification lag angle deserves specific attention. ASEAN's motorcycle and scooter fleet exceeds 200 million units, and India remains the world's largest two-wheeler market. Each two-wheeler requires an SLI battery with an average replacement cycle of 18–24 months significantly shorter than passenger car intervals. While electric two-wheelers are gaining share, the pace of transition in rural and semi-urban markets in India, Indonesia, Vietnam, and the Philippines means that ICE-powered two-wheelers will continue to represent a substantial SLI demand base through 2030 and beyond.

On the agricultural side, the Asian Development Bank has documented that South and Southeast

Asia's mechanization rate is still rising, with tractor penetration expanding into previously underserved smallholder farming communities. This structural mechanization trend adds SLI battery demand in non-automotive applications that is entirely independent of vehicle-fleet electrification dynamics.

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