Laminated Busbar Market Growth Driven by EVs & Renewable Energy | DataM Intelligence

Laminated busbar market expands with rising adoption in electric vehicles, renewable energy systems, and power electronics for efficient energy distribution.

Laminated busbar market

DELAWARE, DE, UNITED STATES, September 16, 2025 / EINPresswire.com/ -- The global laminated busbar market is experiencing strong growth, propelled by the shift toward sustainable energy, rapid industrialization, and advances in power infrastructure. Laminated busbars are essential components in modern electrical distribution, providing reliable, low-resistance pathways for managing high currents across AC power systems in utility, industrial, and commercial settings.

Market Overview

Laminated busbars are typically made from copper or aluminum and insulated with materials such as epoxy powder, polyimide, or polyester films. Their layered design minimizes stray inductance, enhances electrical efficiency, and increases thermal and surge protection. These properties are critical for integrated architectures in power distribution supporting applications in renewable energy systems, data centers, EV charging infrastructure, mass transit, and advanced manufacturing.

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Key Market Drivers and Challenges

Drivers:

• Sustainable Energy Integration: As countries advance renewable energy deployment and electrified transport (EVs, mass rail), upgrading electrical infrastructure with laminated busbars ensures reliability and higher system performance.
• Industrial and Infrastructure Growth: Expanding residential, commercial, and industrial construction, especially in Asia-Pacific, drives demand for robust and efficient power management solutions.
• Reliability and Cost Efficiency: Laminated busbars reduce system costs, improve reliability, and simplify design, driving adoption across mission-critical sectors.

Challenges:

• High Initial Costs: The design, materials, and precise lamination of busbars raise manufacturing and installation expenses. Busbar systems require highly skilled installation and must comply with strict safety regulations, making them less accessible for low-switchgear setups.
• Production Complexity: Use of specialty materials and advanced insulation, along with rigorous testing and compliance requirements, further increase cost and slow widespread adoption.

Segment Insights
• By Material: Copper is projected to hold the most substantial market share owing to its superior electrical and thermal conductivity and surge protection. Aluminum remains a cost-effective alternative for less demanding applications.
• By End-User: Utilities and industrial applications such as manufacturing, transport, and energy infrastructure are primary users. The rapid rise of EV charging infrastructure is emerging as a high-growth segment.
• By Insulation Material: Advancements in high-temperature and high-dielectric laminates (such as polyimide films and fiber-based insulation) support new high-performance applications and safety standards.

Regional Analysis

• Asia-Pacific dominates the global laminated busbar market, accounting for the largest share due to substantial investments in industrialization, electrification, and infrastructure development particularly in China and India, which boast major new rail, construction, and grid expansion projects.
• Large-scale manufacturing shifts to Southeast Asia, along with ambitious energy transition programs, further fuel demand for advanced power distribution solutions.

United States: Recent Industry Developments

 In September 2025, TE Connectivity launched high-current laminated busbars for EV and

industrial applications, improving energy efficiency and reducing weight.
 In August 2025, Eaton expanded its laminated busbar portfolio for renewable energy and power distribution systems.
 In July 2025, ABB USA introduced compact laminated busbars for data centers and industrial automation.
 In June 2025, Schneider Electric partnered with U.S. EV manufacturers to supply custom laminated busbars for high-voltage battery systems.
 In May 2025, W.L. Gore & Associates developed high-temperature laminated busbars for aerospace and defense applications.

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Europe: Recent Industry Developments

 In September 2025, Siemens Energy launched laminated busbar solutions for grid-scale energy storage and renewable integration.
 In August 2025, Schunk Carbon Technology expanded production of laminated busbars for automotive and industrial sectors.
 In July 2025, Leoni Kabel introduced flexible laminated busbars for electric vehicles and traction systems.
 In June 2025, Prysmian Group partnered with European OEMs to supply laminated busbars for power distribution in EVs.
 In May 2025, Infineon Technologies developed embedded laminated busbar solutions for compact electronic devices and power modules.

Japan: Recent Industry Developments

 In September 2025, Sumitomo Electric expanded its laminated busbar production for EV battery and industrial applications.
 In August 2025, Furukawa Electric introduced high-current laminated busbars for next-generation electric mobility.
 In July 2025, Mitsubishi Electric developed lightweight laminated busbar solutions for renewable energy and automotive sectors.
 In June 2025, Hitachi Automotive Systems launched laminated busbars optimized for EV traction batteries.
 In May 2025, Toshiba Energy Systems & Solutions expanded R&D on laminated busbars for compact power electronics and industrial devices.

Other Developments

Significant innovations such as Mersen's introduction of the flexible BusFLEXX busbars in 2020 and tailored high-dielectric insulation designs enable industry adaptation to the evolving

requirements of smart grids, EVs, and high-efficiency power systems.

Competitive Landscape

Leading market participants include Mersen, Amphenol Corporation, Methode Electronics, Rogers Corporation, Ryoden Corporation, Storm Power Components, Zhuzhou CRRC Times Electric, Sun King Technology, Shenzhen Busbar Sci-Tech, and Shanghai Eagtop Electronic Technology. These companies focus on innovation (e.g., Mersen's MHi-T and flexible BusFLEXX busbar lines), product customization, and global supply chain optimization.

Conclusion

Laminated busbars are increasingly central to the reliability, performance, and safety of future-focused electricity networks across energy, industry, and mobility. While adoption is challenged by high costs and complexity, ongoing technological advances and the global push for sustainable infrastructure ensure the market's robust growth through 2031 and beyond.

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Sai Kumar
DataM Intelligence 4market Research LLP
+1 877-441-4866
sai.k@datamintelligence.com
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