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DERMS Architecture & Edge Control Market by Type (Grid DERMS, Field Edge Controller, Hierarchical DERMS), Application (Grid Flexibility & Network Optimization, Distributed Energy Resource Coordination, Microgrid & Local Energy Management, Grid Services & Demand Flexibility), End User and Region – Global Forecast to 2031

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Abstracts

The global DERMS architecture & edge control market is projected to grow from USD 1.77 billion in 2026 to USD 4.07 billion by 2031, at a CAGR of 18.8%. Market growth is supported by the rapid expansion of distributed energy resources, increasing electrification, and utility investments in digital grid infrastructure. Utilities are deploying centralized, edge, and hierarchical DERMS architectures to improve real-time grid visibility, manage bidirectional power flows, optimize network flexibility, and maintain reliable grid operations. Increasing adoption of battery energy storage systems, electric vehicles, demand response programs, and flexible grid resources is further accelerating demand for advanced DERMS and edge control platforms.

Investments in Active Network Management (ANM), Flexible Connections, and intelligent grid-edge technologies are transforming how utilities manage increasingly complex distribution networks. Advances in AI-driven analytics, edge computing, cloud-based grid platforms, and real-time control are enabling faster DER integration, reducing network congestion, and improving operational efficiency. As utilities continue to modernize aging infrastructure and support higher levels of renewable energy penetration, DERMS Architecture & Edge Control solutions are expected to play an increasingly important role in building resilient, flexible, and digitally connected electricity networks.

“Grid DERMS, by type, is expected to maintain its leading position throughout the forecast period.”

Grid DERMS remains the foundation of utility-wide distributed energy resource management, providing centralized visibility, monitoring, and control across increasingly complex distribution networks. Utilities are prioritizing Grid DERMS platforms to coordinate large volumes of distributed solar, battery energy storage systems, electric vehicles, and flexible loads while maintaining grid reliability and operational efficiency. As investments in grid modernization and digital distribution management continue to rise, Grid DERMS is expected to remain the preferred architecture for large-scale DER orchestration throughout the forecast period.

“Distributed energy asset owners, by end user, are expected to witness strong growth during the forecast period.”

The rapid expansion of distributed energy resources is encouraging asset owners to adopt advanced DERMS platforms that improve asset visibility, optimize performance, and enable participation in grid service and flexibility programs. Solar developers, battery storage operators, virtual power plant aggregators, and commercial energy asset owners are increasingly deploying DERMS to maximize asset utilization while responding to changing grid conditions. Growing investments in distributed energy portfolios and grid-edge intelligence are expected to support sustained demand from this end-user segment throughout the forecast period.

Breakdown of Primaries:

In-depth interviews with key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, were conducted to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The primary interviews were distributed as follows:

By Company Type: Tier 1- 48%, Tier 2 - 31%, and Tier 3 - 21%

By Designation: C-Level Executives - 29%, Directors - 24%, Managers - 22%, Technical Specialist/Engineer - 15%, Others – 10%

By Region: North America – 34%, Europe – 28%, Asia Pacific – 28%, Middle East & Africa – 5%, South America – 5%.

Note: Managers include sales managers, production managers, and regional managers.

Tier 1 company: revenue >USD 5 billion; tier 2 company: revenue between USD 1 and USD 5 billion; and tier 3 company: revenue

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