

North America Advanced Distributed Management System Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Component (Solutions and Services), Grid Type (Medium Voltage Grid, High Voltage Grid, and Low Voltage Grid), and Vertical (Utilities, Industrial, and Commercial)

<https://marketpublishers.com/r/NF8CFDB94B13EN.html>

Date: March 2026

Pages: 135

Price: US\$ 3,450.00 (Single User License)

ID: NF8CFDB94B13EN

Abstracts

The North America Advanced Distributed Management System (ADMS) Market is projected to grow significantly, reaching an estimated US\$ 3,313.2 million by 2031, up from US\$ 1,151.3 million in 2024. This growth represents a compound annual growth rate (CAGR) of 16.9% from 2025 to 2031.

Executive Summary and Market Analysis

Utilities are increasingly adopting ADMS to enhance predictive maintenance, improve outage management, and automate response capabilities, especially in areas vulnerable to extreme weather. Regulatory changes are also influencing this trend. The Federal Energy Regulatory Commission (FERC) has introduced resilience-focused mandates that encourage the adoption of modern grid technologies. Additionally, the US Department of Energy (DOE) and Natural Resources Canada (NRCAN) have allocated substantial funding—US\$ 13 billion and US\$ 2 billion, respectively—for grid modernization initiatives. These investments prioritize the deployment of ADMS solutions to strengthen grid stability, facilitate the integration of large-scale renewable energy sources, and address critical infrastructure needs. By alleviating initial investment costs, such funding accelerates the implementation of ADMS across North America, fostering a more resilient and sustainable energy landscape.

Strategic Insights

The North America ADMS Market is segmented by component, grid type, and vertical.

In terms of components, the market is divided into Solutions and Services, with Solutions holding the largest market share in 2024. Regarding grid type, the market is categorized into Medium Voltage Grid, High Voltage Grid, and Low Voltage Grid, where Medium Voltage Grid also held the largest share in 2024. By vertical, the market is segmented into Utilities, Industrial, and Commercial, with Utilities dominating the market in 2024.

The ongoing shift towards grid modernization and digitalization is a key driver of demand for ADMS. As energy networks transition from traditional, centralized systems to more dynamic and decentralized models, utilities face an urgent need for real-time data management, predictive analytics, and automated control systems. ADMS platforms are designed to meet these needs, enabling utilities to manage increasingly complex and interconnected grid environments with improved operational efficiency, reliability, and responsiveness. The rising integration of renewable energy sources, electric vehicles, and smart metering infrastructure further emphasizes the necessity for modernized grid systems. ADMS solutions facilitate this transition by optimizing power distribution, enhancing fault detection, and expediting outage restoration, ultimately minimizing downtime and reducing operational costs.

The surge in grid modernization projects across North America is a critical factor driving the growth of the ADMS market. Initiatives such as the North American Renewable Integration Study by the National Renewable Energy Laboratory (NREL) highlight the urgency for advanced control and monitoring solutions as utilities move towards smarter, more resilient, and decarbonized grids. The increasing integration of variable renewable energy sources, particularly solar and wind, necessitates advanced control systems to manage generation variability and maintain grid stability. ADMS platforms enable utilities to effectively manage Distributed Energy Resources (DERs), enhance situational awareness, and ensure reliability in complex and dynamic power networks. Furthermore, aging infrastructure, frequent extreme weather events, and new regulatory requirements promoting decarbonization and digital transformation are also driving investments in grid modernization. Supported by federal and state initiatives, including smart grid funding and infrastructure programs, utilities in the US and Canada are increasingly deploying ADMS technologies to improve grid operations, enhance outage management, and facilitate renewable energy integration. Thus, the ongoing modernization of power distribution networks in North America remains a pivotal driver for the ADMS market.

Country Insights

The North America ADMS Market is further segmented by country into the United States, Canada, and Mexico, with the United States holding the largest market share in 2024. The US ADMS market is experiencing robust growth due to a combination of technological, regulatory, and operational factors. As utilities work to modernize aging

grid infrastructure, ADMS has become a vital solution for enhancing grid reliability, resilience, and operational efficiency. The increasing integration of renewable energy sources, such as solar and wind, creates a greater demand for advanced control systems to manage variable generation and maintain grid stability. For instance, in October 2024, the US Department of Energy (DOE) Grid Deployment Office awarded Arizona Public Service Company (APS) two grants totaling US\$ 70 million to strengthen smart grid resilience and expand wildfire prevention measures. Such investments are expected to significantly contribute to the growth of the ADMS market in the US.

Company Profiles

Key players in the North America ADMS market include Oracle Corp, Schneider Electric SE, General Electric Co, Siemens AG, Capgemini SE, Aspen Technology Inc. (Emerson Electric), Operation Technology Inc, Survalent Technology Corporation, Hitachi Energy Ltd, and Minsait ACS Inc. These companies are employing various strategies, including expansion, product innovation, and mergers and acquisitions, to enhance their offerings and increase market share.

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