

# **Middle East & Africa 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)**

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## **Abstracts**

The Advanced Distributed Management System (ADMS) market in the Middle East and Africa (MEA) is poised for significant growth, with projections indicating an increase from US\$ 204.3 million in 2024 to US\$ 536.4 million by 2031. This growth represents a compound annual growth rate (CAGR) of 15.4% from 2025 to 2031, driven largely by the region's transition towards clean energy and the integration of advanced technologies in energy management.

The shift towards renewable energy sources is a key factor influencing the ADMS market. Countries like the United Arab Emirates (UAE), Saudi Arabia, and South Africa are investing heavily in large-scale solar and wind projects to diversify their energy portfolios and meet carbon reduction goals. For example, the International Finance Corporation (IFC) has mobilized around US\$ 1 billion in the Middle East from July 2022 to June 2023, with direct investments totaling US\$ 613 million. A significant portion of this funding, approximately US\$ 710 million, has been directed towards critical sectors such as infrastructure, manufacturing, agribusiness, and services, supporting the development of solar parks and wind farms while enhancing food security in a challenging global economic landscape. These initiatives necessitate advanced grid management systems capable of managing the complexities and variability associated with renewable energy integration.

Moreover, investments in digital infrastructure and smart city initiatives, such as Saudi

Arabia's NEOM and the UAE's digital transformation programs, are accelerating the adoption of ADMS. These projects highlight the need for modern, resilient energy systems that can support sustainable urban growth.

The ADMS market can be 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. When categorized by grid type, the market includes medium voltage, high voltage, and low voltage grids, with medium voltage grids leading in market share. By vertical, the utilities sector dominates, reflecting the critical role of utilities in energy distribution and management.

The integration of artificial intelligence (AI) and machine learning (ML) into ADMS is transforming grid management. Traditional ADMS platforms have primarily focused on monitoring and responding to grid conditions. However, the incorporation of AI and ML enhances these systems, enabling utilities to shift from reactive to predictive operations. By analyzing vast amounts of real-time and historical data from sensors, smart meters, and SCADA systems, AI and ML can identify patterns and anomalies that signal potential equipment failures or system irregularities, such as thermal overloads or voltage instability. This predictive capability allows for proactive maintenance and improved operational efficiency.

As the energy landscape becomes increasingly decentralized with the rise of renewable energy sources, electric vehicles, and distributed energy resources (DERs), the role of AI in optimizing grid operations is becoming more critical. The application of advanced analytics, AI, and ML is expected to be a significant trend in the ADMS market, particularly in 2025, as utilities in the Gulf region, including the UAE and Saudi Arabia, implement AI-based solutions to manage energy distribution effectively and address the intermittency of renewable energy sources.

In Africa, countries are leveraging machine learning for predictive maintenance and fault isolation within ADMS frameworks, aiming to minimize outages and enhance grid reliability. International partnerships and infrastructure investments are facilitating the adoption of digital tools that enable real-time grid operations and improved energy management across the region.

Country-wise, the ADMS market in the MEA is segmented into the UAE, Saudi Arabia, South Africa, and the Rest of the Middle East and Africa. The Rest of the MEA region, which includes countries like Jordan, Kuwait, Lebanon, Oman, and Qatar, is expected to hold the largest market share in 2024. The demand for electricity in these countries is surging due to rapid urbanization, population growth, and industrialization. For instance, the Oman Electricity Transmission Company (OETC) has announced plans to implement 51 electricity transmission projects by 2029, aimed at enhancing grid capacity to accommodate both renewable and conventional power generation. This includes several large-scale solar projects, such as the 500 MW Ibri Solar III project,

which is expected to be operational by mid-2026.

As countries in the Rest of MEA modernize their power sectors, the demand for ADMS solutions and services is increasing, enabling reliable, efficient, and sustainable electricity distribution. Key players in the ADMS market include Oracle Corp, Schneider Electric SE, General Electric Co, Siemens AG, Capgemini SE, and others, who are employing strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative solutions.

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