

Middle East & Africa Meter Data Management System Market Size and Forecast (2021 - 2031)

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Abstracts

The Middle East and Africa Meter Data Management System (MDMS) market is poised for substantial growth, with projections indicating an increase from US\$ 143.8 million in 2024 to US\$ 334.8 million by 2031. This growth trajectory reflects a compound annual growth rate (CAGR) of 13.2% from 2025 to 2031, driven by several key factors including the deployment of smart meters, energy diversification initiatives, and the digitization of utility operations.

Countries such as Saudi Arabia, the United Arab Emirates (UAE), South Africa, and Nigeria are at the forefront of this transition, motivated by the need for enhanced energy management and the reduction of commercial losses. In the Gulf Cooperation Council (GCC) region, significant investments are being made in smart grids and smart cities as part of national strategies like Saudi Arabia's Vision 2030 and the UAE's Energy Strategy 2050. These initiatives mandate the implementation of meter data management systems to facilitate real-time monitoring and effective demand-side management.

The integration of renewable energy sources, particularly solar power in the UAE, further underscores the necessity for robust meter data management systems to balance energy supply and demand. In Africa, nations such as South Africa, Kenya, and Nigeria are increasingly adopting these systems to address challenges like electricity theft, improve billing accuracy, and reduce non-revenue water (NRW). Utilities like Eskom in South Africa and Kenya Power are deploying smart meters alongside MDMS to enhance their operational efficiency.

As electricity demand rises, urbanization accelerates, and the middle class expands across the Middle East and Africa, utility providers face mounting pressure to modernize

their systems. The integration of renewable energy into existing grids necessitates sophisticated load forecasting and demand response capabilities, which are facilitated by meter data management systems. Additionally, international collaborations, donor funding, and public-private partnerships are playing a crucial role in the deployment of these systems.

Market Segmentation Analysis

The Middle East and Africa MDMS market can be segmented based on various criteria:

By Offering: The market is divided into Software and Services, with Software holding the largest market share in 2024.

By Utility Type: The market is categorized into Electricity, Water, and Gas, where Electricity is the dominant segment.

By Application: The applications include Smart Grid, Microgrid, Energy Storage, EV Charging, and others, with Smart Grid leading the market.

By End Users: The end-user segments are Residential, Commercial, and Industrial, with Residential holding the largest share in 2024.

Market Outlook

Globally, governments are implementing extensive smart meter rollouts driven by regulatory requirements and infrastructure modernization efforts. This trend compels utilities to adopt effective meter data management systems to handle the increasing volume of data generated by smart meters. In 2023, over 1.2 billion smart meters were operational worldwide, with penetration levels reaching 78% in Saudi Arabia. The Middle East is leading the charge in smart meter deployments, accounting for over 50% of global annual shipments in 2023. For instance, the Saudi Electricity Company has deployed approximately 11 million smart meters within a three-year timeframe, while the UAE aims for a complete rollout by 2029.

This rapid expansion generates substantial data streams that necessitate advanced data management capabilities. The accelerating pace of smart meter deployment, driven by policy mandates, efficiency goals, and digital transformation, not only increases the number of intelligent metering devices but also complicates data

management. This dynamic creates a pressing need for sophisticated, scalable, and secure meter data management systems, which are becoming essential components of modern utility infrastructure.

Country Insights

The MDMS market in the Middle East and Africa is further segmented by country, with Saudi Arabia, the UAE, South Africa, and the Rest of Middle East and Africa being key players. Saudi Arabia is expected to hold the largest market share in 2024. The country's energy sector is undergoing a transformation as it invests heavily in smart grid technologies under its Vision 2030 program. The push for smart metering to optimize electricity distribution is driving demand for meter data management systems, which enable utilities to efficiently process and analyze consumption data, manage peak loads, and improve billing accuracy.

Factors contributing to the growth of the MDMS market include rapid urbanization, large-scale infrastructure projects, and government initiatives promoting the digitalization of the electricity sector. The integration of renewable energy, particularly solar power, further necessitates robust data management solutions for distributed energy resources. Additionally, the focus on reducing energy losses, enhancing operational efficiency, and enabling predictive maintenance supports the adoption of meter data management systems. The increasing emphasis on customer-centric services, such as detailed consumption insights and automated billing, also reinforces the need for sophisticated data management infrastructure.

Company Profiles

Key players in the Middle East and Africa MDMS market include Oracle Corp, ABB Ltd, Honeywell International Inc, Siemens AG, Hubbell Inc, Itron Inc, Landis+Gyr Group AG, AVEVA Group Plc, Gentrack Group, and Fluentgrid Limited. These companies are employing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative solutions to their customers.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:

4. METER DATA MANAGEMENT SYSTEM MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Ecosystem Analysis
 - 4.2.1 Utility Companies
 - 4.2.2 Advanced Metering Infrastructure Service Providers
 - 4.2.3 System Providers and Technology Vendors
 - 4.2.4 Government and Regulatory Bodies
 - 4.2.5 System Integrators and Implementation Partners
 - 4.2.6 Industry Associations and Advocacy Groups
 - 4.2.7 End Users (Residential, Commercial, and Industrial)
 - 4.2.8 List of Vendors in Value Chain

5. MIDDLE EAST & AFRICA METER DATA MANAGEMENT SYSTEM MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers

5.2 Market Restraints

5.3 Market Opportunities

5.4 Future Trends

5.5 Impact of Drivers and Restraints:

6. METER DATA MANAGEMENT SYSTEM MARKET - MIDDLE EAST & AFRICA MARKET ANALYSIS

6.1 Middle East & Africa Meter Data Management System Market Revenue (US\$ Million), 2024 - 2031

6.2 Middle East & Africa Meter Data Management System Market Forecast and Analysis

7. MIDDLE EAST & AFRICA METER DATA MANAGEMENT SYSTEM MARKET REVENUE ANALYSIS - BY OFFERING

7.1 Software

7.1.1 Overview

7.1.2 Software: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.2 Services

7.2.1 Overview

7.2.2 Services: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8. MIDDLE EAST & AFRICA METER DATA MANAGEMENT SYSTEM MARKET REVENUE ANALYSIS - BY UTILITY TYPE

8.1 Electricity

8.1.1 Overview

8.1.2 Electricity: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.2 Water

8.2.1 Overview

8.2.2 Water: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.3 Gas

8.3.1 Overview

8.3.2 Gas: Middle East & Africa Meter Data Management System Market - Revenue

and Forecast, 2021 - 2031 (US\$ Million)

9. MIDDLE EAST & AFRICA METER DATA MANAGEMENT SYSTEM MARKET REVENUE ANALYSIS - BY APPLICATION

9.1 Smart Grid

9.1.1 Overview

9.1.2 Smart Grid: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.2 Microgrid

9.2.1 Overview

9.2.2 Microgrid: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.3 Energy Storage

9.3.1 Overview

9.3.2 Energy Storage: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.4 EV Charging

9.4.1 Overview

9.4.2 EV Charging: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

9.5 Others

9.5.1 Overview

9.5.2 Others: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10. MIDDLE EAST & AFRICA METER DATA MANAGEMENT SYSTEM MARKET REVENUE ANALYSIS - BY END USERS

10.1 Residential

10.1.1 Overview

10.1.2 Residential: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.2 Commercial

10.2.1 Overview

10.2.2 Commercial: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

10.3 Industrial

10.3.1 Overview

10.3.2 Industrial: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

11. MIDDLE EAST & AFRICA METER DATA MANAGEMENT SYSTEM MARKET - COUNTRY ANALYSIS

11.1 Middle East & Africa

11.1.1 Middle East & Africa Meter Data Management System Market Revenue and Forecast and Analysis - by Country

11.1.1.1 Middle East & Africa Meter Data Management System Market Revenue and Forecast and Analysis - by Country

11.1.2.2 Saudi Arabia: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

11.1.2.2.1 Saudi Arabia: Middle East & Africa Meter Data Management System Market Share - by Offering

11.1.2.2.2 Saudi Arabia: Middle East & Africa Meter Data Management System Market Share - by Utility Type

11.1.2.2.3 Saudi Arabia: Middle East & Africa Meter Data Management System Market Share - by Application

11.1.2.2.4 Saudi Arabia: Middle East & Africa Meter Data Management System Market Share - by End Users

11.2.3.3 United Arab Emirates: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

11.2.3.3.1 United Arab Emirates: Middle East & Africa Meter Data Management System Market Share - by Offering

11.2.3.3.2 United Arab Emirates: Middle East & Africa Meter Data Management System Market Share - by Utility Type

11.2.3.3.3 United Arab Emirates: Middle East & Africa Meter Data Management System Market Share - by Application

11.2.3.3.4 United Arab Emirates: Middle East & Africa Meter Data Management System Market Share - by End Users

11.3.4.4 South Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

11.3.4.4.1 South Africa: Middle East & Africa Meter Data Management System Market Share - by Offering

11.3.4.4.2 South Africa: Middle East & Africa Meter Data Management System Market Share - by Utility Type

11.3.4.4.3 South Africa: Middle East & Africa Meter Data Management System Market Share - by Application

11.3.4.4.4 South Africa: Middle East & Africa Meter Data Management System
Market Share - by End Users

11.4.5.5 Rest of Middle East & Africa: Middle East & Africa Meter Data Management
System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

11.4.5.5.1 Rest of Middle East & Africa: Middle East & Africa Meter Data
Management System Market Share - by Offering

11.4.5.5.2 Rest of Middle East & Africa: Middle East & Africa Meter Data
Management System Market Share - by Utility Type

11.4.5.5.3 Rest of Middle East & Africa: Middle East & Africa Meter Data
Management System Market Share - by Application

11.4.5.5.4 Rest of Middle East & Africa: Middle East & Africa Meter Data
Management System Market Share - by End Users

12 COMPETITIVE LANDSCAPE

12.1 Heat Map Analysis by Key Players

12.2 Company Market Share Analysis, 2024

13 INDUSTRY LANDSCAPE

13.1 Overview

13.2 New Product Development

13.3 Merger and Acquisition

13.4 Other Strategic Developments

14 COMPANY PROFILES

14.1 Oracle Corp

14.1.1 Key Facts

14.1.2 Business Description

14.1.3 Products and Services

14.1.4 Financial Overview

14.1.5 SWOT Analysis

14.1.6 Key Developments

14.2 ABB Ltd

14.2.1 Key Facts

14.2.2 Business Description

14.2.3 Products and Services

14.2.4 Financial Overview

- 14.2.5 SWOT Analysis
- 14.2.6 Key Developments
- 14.3 Honeywell International Inc
 - 14.3.1 Key Facts
 - 14.3.2 Business Description
 - 14.3.3 Products and Services
 - 14.3.4 Financial Overview
 - 14.3.5 SWOT Analysis
 - 14.3.6 Key Developments
- 14.4 Siemens AG
 - 14.4.1 Key Facts
 - 14.4.2 Business Description
 - 14.4.3 Products and Services
 - 14.4.4 Financial Overview
 - 14.4.5 SWOT Analysis
 - 14.4.6 Key Developments
- 14.5 Hubbell Inc
 - 14.5.1 Key Facts
 - 14.5.2 Business Description
 - 14.5.3 Products and Services
 - 14.5.4 Financial Overview
 - 14.5.5 SWOT Analysis
 - 14.5.6 Key Developments
- 14.6 Itron Inc
 - 14.6.1 Key Facts
 - 14.6.2 Business Description
 - 14.6.3 Products and Services
 - 14.6.4 Financial Overview
 - 14.6.5 SWOT Analysis
 - 14.6.6 Key Developments
- 14.7 Landis+Gyr Group AG
 - 14.7.1 Key Facts
 - 14.7.2 Business Description
 - 14.7.3 Products and Services
 - 14.7.4 Financial Overview
 - 14.7.5 SWOT Analysis
 - 14.7.6 Key Developments
- 14.8 AVEVA Group Plc
 - 14.8.1 Key Facts

- 14.8.2 Business Description
- 14.8.3 Products and Services
- 14.8.4 Financial Overview
- 14.8.5 SWOT Analysis
- 14.8.6 Key Developments
- 14.9 Gentrack Group
 - 14.9.1 Key Facts
 - 14.9.2 Business Description
 - 14.9.3 Products and Services
 - 14.9.4 Financial Overview
 - 14.9.5 SWOT Analysis
 - 14.9.6 Key Developments
- 14.10 Fluentgrid Limited
 - 14.10.1 Key Facts
 - 14.10.2 Business Description
 - 14.10.3 Products and Services
 - 14.10.4 Financial Overview
 - 14.10.5 SWOT Analysis
 - 14.10.6 Key Developments

15. APPENDIX

- 15.1 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. Middle East & Africa Meter Data Management System Market Segmentation

Table 2. List of Vendors

Table 3. Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Table 4. Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Offering

Table 5. Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Utility Type

Table 6. Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 7. Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End Users

Table 8. Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Country

Table 9. Saudi Arabia: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Offering

Table 10. Saudi Arabia: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Utility Type

Table 11. Saudi Arabia: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 12. Saudi Arabia: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End Users

Table 13. United Arab Emirates: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Offering

Table 14. United Arab Emirates: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Utility Type

Table 15. United Arab Emirates: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 16. United Arab Emirates: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End Users

Table 17. South Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Offering

Table 18. South Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Utility Type

Table 19. South Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 20. South Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End Users

Table 21. Rest of Middle East & Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Offering

Table 22. Rest of Middle East & Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Utility Type

Table 23. Rest of Middle East & Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 24. Rest of Middle East & Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by End Users

Table 25. Heat Map Analysis by Key Players

List Of Figures

LIST OF FIGURES

- Figure 1. Middle East & Africa Meter Data Management System Market Segmentation - Country
- Figure 3. Ecosystem: Meter Data Management System Market
- Figure 4. Middle East & Africa Meter Data Management System Market - Key Market Dynamics
- Figure 5. Impact Analysis of Drivers and Restraints
- Figure 6. Middle East & Africa Meter Data Management System Market Revenue (US\$ Million), 2024 - 2031
- Figure 7. Middle East & Africa Meter Data Management System Market Share (%) - by Offering, 2024 and 2031
- Figure 8. Software: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 9. Services: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 10. Middle East & Africa Meter Data Management System Market Share (%) - by Utility Type, 2024 and 2031
- Figure 11. Electricity: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 12. Water: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 13. Gas: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 14. Middle East & Africa Meter Data Management System Market Share (%) - by Application, 2024 and 2031
- Figure 15. Smart Grid: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 16. Microgrid: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 17. Energy Storage: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 18. EV Charging: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)
- Figure 19. Others: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 20. Middle East & Africa Meter Data Management System Market Share (%) - by End Users, 2024 and 2031

Figure 21. Residential: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 22. Commercial: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 23. Industrial: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 24. Middle East & Africa Meter Data Management System Market Breakdown by Key Countries, 2024 and 2031 (%)

Figure 25. Saudi Arabia: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 26. United Arab Emirates: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 27. South Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 28. Rest of Middle East & Africa: Middle East & Africa Meter Data Management System Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 29. Company Market Share Analysis, 2024

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