

Middle East & Africa Functional Safety Market Size and Forecast (2021 - 2031)

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Abstracts

The Middle East and Africa Functional Safety Market is projected to grow significantly, reaching an estimated US\$ 635.8 million by 2031, up from US\$ 409.3 million in 2024. This growth reflects a compound annual growth rate (CAGR) of 6.8% from 2025 to 2031, indicating a robust demand for functional safety solutions in the region.

Executive Summary and Market Analysis

The functional safety market in the Middle East and Africa is categorized into several regions, including South Africa, the UAE, Saudi Arabia, and the broader Rest of Middle East and Africa. A notable trend driving this market is the increasing demand for electric vehicles (EVs), particularly in Saudi Arabia and Dubai. In September 2023, Lucid Group, Inc. announced the opening of its first manufacturing facility in Saudi Arabia, marking its second advanced manufacturing plant globally and its first outside the United States. This facility is set to produce innovative electric vehicles for the local market and for export.

Additionally, Saudi Arabia has been proactive in establishing its electric vehicle manufacturing capabilities, with plans announced in March 2022 to set up the first EV manufacturing plant aimed at achieving 30% electric mobility in Riyadh by 2030. In January 2024, Hummingbird EV, a leader in commercial vehicle electrification, also announced the establishment of a micro factory in the UAE, aimed at increasing the production of zero-emission commercial vehicles to meet the rising demand across the Middle East and North Africa (MENA), Southeast Asia, and India.

Strategic Insights

Market Segmentation Analysis

The Middle East and Africa Functional Safety Market is segmented by various criteria:

By Offering: The market is divided into Components and Services, with the Components segment leading in 2024.

By System: The market includes Emergency Shutdown Systems (ESD), High Integrity Pressure Protection Systems (HIPPS), Burner Management Systems (BMS), Fire and Gas Monitoring, Turbo Machinery Control (TMC), and others. The ESD segment was the largest in 2024.

By End-user Industry: The market is categorized into Power Generation, Oil and Gas, Chemicals, Pharmaceuticals, Food and Beverages, and others, with Power Generation being the dominant segment in 2024.

Market Outlook

The integration of artificial intelligence (AI) and machine learning (ML) into functional safety systems is emerging as a transformative trend. These technologies are redefining safety management in critical sectors such as industrial automation, robotics, and process industries. As systems grow more complex and interconnected, traditional safety architectures face challenges in managing dynamic, data-rich environments. AI and ML are being utilized to predict failures, assess risks in real-time, and enhance safety responses, thereby improving both preventive and corrective measures.

For instance, in March 2025, QNX, a division of BlackBerry Limited, launched an advanced Functional Safety (FuSa) platform for robotic systems, developed in collaboration with Intel and NexCOBOT. This platform integrates robotic and safety control functionalities on a single board, utilizing Intel Core i7 processors and QNX OS for Safety, targeting AI-driven industrial environments. Similarly, in February 2025, Schneider Electric secured a patent for an AI-driven process safety innovation within its EcoStruxure Triconex Safety suite, which enhances the predictive capabilities of process safety systems in high-risk settings.

As businesses increasingly focus on minimizing downtime and enhancing resilience, AI and ML are becoming essential tools for developing smarter, faster, and more reliable safety architectures, which are expected to shape future trends in the functional safety

market.

Country Insights

The market is further segmented by country, with significant contributions from the United Arab Emirates, Saudi Arabia, South Africa, and the Rest of Middle East and Africa. The Rest of Middle East and Africa held the largest market share in 2024, with countries like Iran, Iraq, Oman, Qatar, and Kuwait playing pivotal roles.

Iraq, for instance, is OPEC's second-largest crude oil producer and has substantial proven oil reserves. The Iraqi government is actively expanding oil production capabilities, as evidenced by the inauguration of a new oil refinery in Karbala in April 2023, which is expected to refine 140,000 barrels per day to meet domestic fuel demands. Similarly, Iran, which ranks as OPEC's fourth-largest crude oil producer, possesses significant oil and natural gas reserves, contributing to the growth of the functional safety market in the region.

Company Profiles

Key players in the Middle East and Africa Functional Safety Market include ABB Ltd, Schneider Electric SE, Emerson Electric Co, Honeywell International Inc, Rockwell Automation Inc, Siemens AG, OMRON Corp, Yokogawa Electric Corp, GE Vernova Inc., and HIMA Paul Hildebrandt GmbH. These companies are pursuing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative solutions to their customers.

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