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Saudi Arabia Building Automation System Market Assessment, By Component [Hardware, Software], By Application [HVAC Control Systems, Lighting Control Systems, Electronic Security & Safety, Building Energy Management System], By Communication Technology [Wired, Wireless, Others], By End-user [Commercial, Industrial, Residential], By Sales Channel [Direct, Channel], By Region, Opportunities and Forecast, 2016-2030F

https://marketpublishers.com/r/S4FABD5B7809EN.html
Date: February 2025
Pages: 127
Price: US$ 3,300.00 (Single User License)
ID: S4FABD5B7809EN

Abstracts

Saudi Arabia building automation system market size was valued at USD 1.5 billion in 2022, which is expected to reach USD 3.3 billion in 2030, with a CAGR of 10.2% for the forecast period between 2023 and 2030. The building automation system (BAS) market in Saudi Arabia is a rapidly growing industry that is poised for significant expansion in the coming years. The BAS market in Saudi Arabia is being driven by various factors, including the need to improve energy efficiency, reduce operating costs, and meet government regulations to reduce carbon emissions. Building owners and managers increasingly turn to BAS solutions to optimize building systems for greater energy efficiency, reduced maintenance costs, and improved occupant comfort.

In addition, the growth of smart building technologies, such as the Internet of Things (IoT) and artificial intelligence (AI), is driving the development of more advanced and integrated BAS solutions. These solutions can provide real-time data on energy consumption, temperature, air quality, and occupancy levels, which can be analyzed using AI algorithms to optimize building systems for greater efficiency and comfort. Furthermore, the increasing focus on occupant health and safety, particularly in the

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wake of the COVID-19 pandemic, is driving the demand for BAS solutions that can provide touchless controls for lighting, temperature, and other building systems, as well as monitoring systems that can detect and address indoor air quality issues.

Technological Advancements have Driven the Market

The Saudi Arabia building automation system market is undergoing significant technological advancements, integrating various building systems like lighting, HVAC, and security through the Internet of Things (IoT). Artificial intelligence and machine learning make BAS more intelligent, enabling better decision-making, optimizing energy consumption, reducing cost, and enhancing occupant comfort. Additionally, adopting cloud-based solutions and wireless connectivity are making the system more flexible, scalable, and accessible. Overall, these technological advancements are driving the growth of the BAS market in Saudi Arabia, as organizations look to leverage these innovations to improve their building operations. Like, KNX Association is the originator and proprietor of KNX technology, it is globally recognized as the standard for home and building automation applications. It encompasses many functions, from lighting and curtain control to security systems, HVAC (heating, ventilation, and air conditioning), monitoring, energy management, alarms, water control, metering, household appliances, audio systems, and much more. Notably, this technology can be seamlessly integrated into new and pre-existing residential and commercial structures.

Rising Popularity of IoT-based Building Automation System Solutions

The Saudi Arabia Building Automation System Market is currently witnessing a remarkable surge in demand, primarily propelled by the increasing adoption of Internet of Things (IoT)-based solutions. These innovative BAS solutions are reshaping the landscape of building systems management and control. IoT integration plays a pivotal role in these systems, enabling real-time data collection and analysis, which in turn allows for more precise monitoring and control of critical building functions like lighting, HVAC, security, and energy management.

IoT-driven solutions become more attractive due to their capacity to significantly enhance energy efficiency, curtail operational costs, and elevate the comfort levels of building occupants. Furthermore, Saudi Arabia's strong commitment to the development of smart cities and sustainable infrastructure aligns seamlessly with the capabilities offered by IoT-driven BAS solutions. This positions them as a vital facilitator for the creation of intelligent and eco-friendly buildings that cater to the nation's evolving requirements for modern, efficient, and sustainable infrastructure. Consequently, the

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adoption of IoT-based BAS solutions is expected to maintain its upward trajectory in Saudi Arabia market.

Increasing Demand for Smart & Sustainable Buildings

Due to environmental awareness and energy efficiency, Saudi Arabia's building automation market is shifting towards sustainability and smart building solutions. This shift is driven by Vision 2030, a national vision promoting sustainability and technological advancement. Smart building technologies, including advanced HVAC controls, intelligent lighting systems, and integrated security measures, are essential for modern construction endeavors. As the nation wholeheartedly embraces sustainable development principles, the building automation system market stands on the cusp of substantial growth. It offers innovative solutions that align seamlessly with Saudi Arabia's vision for a greener, more intelligent future.

In 2022, Schneider Electric garnered the esteemed 'Best Engineering Design for a Zero Carbon Smart Building' award, a testament to its leadership in sustainability, digital transformation, and energy management. This accolade recognized by Fast Company magazine underscores Schneider Electric's unwavering dedication to crafting eco-friendly smart buildings and delivering cutting-edge technology for efficient energy management in low-energy structures. Schneider Electric's prominence in energy management, digital transformation, and automation amplifies the significance of its recognition.

Impact of COVID-19

The pandemic has accelerated the development of building automation systems (BAS) in Saudi Arabia, focusing on touchless controls and smart technologies to minimize virus transmission. BAS solutions offer touchless controls for lighting, temperature, and other building systems and monitoring systems to detect and address indoor air quality issues. They optimize building systems for better ventilation and air quality, reducing the risk of virus transmission. The pandemic has highlighted the importance of energy efficiency and sustainability as building owners and managers seek to reduce operating costs and improve environmental sustainability. BAS solutions are being used to optimize building systems.

Key Players Landscape and Outlook

The building automation system market in Saudi Arabia is highly competitive, with

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several international and domestic players vying for market share. The major players in the market offer a range of products and services, including hardware, software, and integrated solutions designed to improve building operations, reduce energy consumption, and enhance occupant comfort and safety. These companies invest heavily in research and development to bring new and innovative products to market, and they often collaborate with building owners and operators to design customized solutions meeting their specific needs.

For instance, in February 2022, SABB partnered with Siemens to make its new headquarters in Riyadh, which would be a digital efficiency and sustainability model. Siemens will provide smart building services, including an employee app, IoT sensors, system integration, and energy analytics. It aligns with SABB's goal to be a fully digital bank, improving efficiency and employee well-being. The result will be an energy-efficient design that could inspire other buildings in Saudi Arabia.

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