

UAE 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

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Abstracts

UAE building automation system market size was valued at USD 1.05 billion in 2022, expected to reach USD 1.9 billion in 2030, with a CAGR of 7.5% for the forecast period between 2023 and 2030. UAE building automation system market provides automation solutions for various building systems, such as heating, ventilation, air conditioning, lighting, security, and related functions. These systems are designed to optimize building performance, increase energy efficiency, and enhance occupant comfort and safety. UAE has been investing heavily in smart building infrastructure and sustainable development, making it one of the fastest-growing markets for building automation systems in the Middle East.

The UAE government has set targets to reduce carbon emissions and increase the adoption of renewable energy sources to create a favorable environment for the development of building automation systems. Local and international players serve the market with diverse products and services offered to cater to the needs of different industries and building types. The market is expected to grow due to the increasing demand for energy-efficient solutions and the growing trend towards smart buildings in

the region. The deployment of advanced technologies, such as the Internet of Things (IoT), artificial intelligence (AI), and cloud computing, is expected to boost further the growth of the building automation system market in UAE.

Integration of Building Automation Systems

The UAE building automation system market embraces integrating building automation systems (BAS) with other systems to create comprehensive, interconnected building management solutions. It includes merging BAS with security systems for enhanced safety, energy management systems for optimized consumption, smart lighting, and HVAC systems, for efficient resource use and occupant comfort. Furthermore, integrating data analytics and artificial intelligence systems empowers BAS to make data-driven decisions for predictive maintenance and better building performance. The comprehensive approach for system integration improves operational efficiency and aligns with the UAE's sustainability and smart city initiatives, propelling the BAS market growth in the region.

In August 2022, a noteworthy milestone was achieved as all the structures within the United Arab Emirates University were smoothly incorporated into the Hassantuk Safety System. Hassantuk's competitive smart system has demonstrated its ability to improve the effectiveness of emergency response services, with a particular focus on fire and life safety alarms. This integration underscores the dedication to protecting lives and assets within educational institutions throughout the UAE.

Rising Awareness of the Benefits of Building Automation Systems

The building automation system (BAS) market in UAE is witnessing a significant upsurge in awareness regarding the manifold advantages these systems offer. There is a growing acknowledgment that BAS can substantially elevate buildings' efficiency, comfort, and sustainability. The enhanced awareness of BAS benefits encompasses improved energy management, reduced operational costs, and a smaller environmental impact, perfectly aligning with the UAE's sustainability objectives. Furthermore, integrating smart technologies such as IoT and AI enhances occupant comfort, security, and convenience. This heightened awareness is driving both new construction projects and the retrofitting of existing structures to incorporate advanced BAS solutions, ensuring that buildings are more intelligent, and energy-efficient and responsive to the occupants' needs. It contributes significantly to the overall growth and development of UAE building automation system market.

Increasing Demand for Energy and Operational Efficiency

UAE building automation system market is experiencing a surge in energy and operational efficiency demand due to sustainability initiatives and smart city development. BAS is crucial in optimizing energy consumption in buildings, reducing energy waste, and ensuring cost savings. It facilitates remote monitoring and predictive maintenance, preventing system failures and reducing downtime, especially for critical infrastructure. The dual focus on energy and operational efficiency significantly drives the adoption of advanced BAS solutions in UAE.

In March 2022, Zenatix expanded its operations in UAE and Middle East. The company offers a cloud-based energy and asset management solution, addressing challenges in energy efficiency and equipment maintenance in these infrastructures. Zenatix's IoT-powered automated solution reduces energy consumption, provides anomaly alerts, enhances operational compliance, and facilitates remote asset management. This affordable, wireless, and scalable solution is a significant step towards addressing the global automation gap in small and mid-sized buildings.

Impact of COVID-19

UAE building automation system market experienced distinct phases before and after the COVID-19 pandemic. It was on a growth trajectory, pre-pandemic, fueled by the government's smart city initiatives, rising construction activities, and integrating IoT and AI technologies. However, the pandemic initially led to a temporary slowdown due to construction disruptions but spotlighted the need for BAS to adapt to health and safety concerns. BAS providers pivoted towards more resilient and contactless solutions, which gained prominence post-pandemic. As construction activities resumed and the emphasis on sustainability persisted, the BAS market regained momentum, with an increased focus on energy efficiency and smart building solutions, positioning it for continued growth in the UAE's evolving real estate landscape.

Key Players Landscape and Outlook

UAE building automation system market is competitive with global and local players like Siemens, Schneider Electric, and Johnson Controls. The market is expected to grow as UAE invests in smart infrastructure and sustainable initiatives. The focus on energy efficiency, post-pandemic adaptations, and smart cities ensures a bright outlook for established and emerging innovators.

In January 2023, ABB introduced its smart building management system at the Dubai Expo for Middle East, featuring primary products in the smart building sector, including the new Zenit wiring devices range, ABB i-bus KNX, ABB SmartTouch 10, ABB-free@home, and Emergency Lighting. The ABB Cylon Smart Building Management Systems product portfolio offers scalable automation and energy control solutions for various commercial and industrial buildings, regardless of their size. This Building Management System (BMS) enables automated functions, reducing energy costs, allowing real-time monitoring, and control of building facilities. ABB's acquisition of Cylon Controls in 2020 expanded its offerings to include HVAC controls and building energy management systems.

In April 2023, the Adeeb Group and Azbil Corporation, a Japanese company specializing in building automation and energy management, signed a Memorandum of Understanding (MoU). This MoU signifies a collaborative effort between the Adeeb Group and Azbil Corporation to enhance their offerings in building automation and energy management services for clients across UAE. This partnership represents a significant stride in the direction of developing energy-efficient solutions that align with the UAE's ongoing energy transition initiatives.

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*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work

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