

Europe Building Automation System Market Forecast to 2031 - Regional Analysis - by Component [Hardware (Security & Surveillance System, Facility Management Systems, Fire Protection Systems, and Others) and Software & Services] and End User (Commercial, Industrial, and Residential)

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Abstracts

The Europe building automation system market was valued at US\$ 20,984.92 million in 2023 and is expected to reach US\$ 47,101.39 million by 2031; it is estimated to register a CAGR of 10.6% from 2023 to 2031.

Integration of Wireless Sensor Network Technology and Wireless Protocols with Building Automation Systems Fuels Europe Building Automation System Market

Traditional building automation systems relied heavily on wired infrastructure, which limits flexibility in sensor placement and system expansion. To overcome this limitation, sensors equipped with wireless sensor network (WSN) technology can be deployed wirelessly, allowing for easy reconfiguration and scalability. Wireless sensor networks eliminate the need for large cabling, reducing installation costs and labor. WSN technology enables control of building systems and real-time monitoring, optimizing energy usage based on occupancy and environmental conditions. According to the International Energy Agency reports, in 2022, the building sector represents approximately a third of total energy system emissions, including buildings operations (26%) and embodied emissions (7%) associated with the production of materials used for their construction.

Many wireless protocols and standards, including Z-Wave, 6LoWPAN, ZigBee, and

EnOcean, are being implemented that are focused on using wireless technologies and offer innovation within the building automation system ecosystem. Further, the Z-Wave protocol is a simple, wireless, interoperable, RF-based communication-based technology designed particularly for monitoring and controlling and status reading applications in light commercial and residential environments. The protocol allows companies to offer a wide range of home automation options to customers. Therefore, the integration of wireless sensor network technology and wireless protocols with building automation systems drives the building automation market.

Europe Building Automation System Market Overview

A regulatory mandate requires the installation of Building Automation Control Systems (BACS) in tertiary buildings by January 2025 to enhance energy efficiency and decrease CO₂ emissions. In 2020, all European Union (EU) member states were obligated to incorporate this mandate into national legislation, as per the EU Energy Performance of Buildings Directive (EPBD). The legislation mandates the installation or retrofit of automation control systems, including building management systems, in existing and under-construction nonresidential buildings with an operational rated output of over 290 kW. This requirement is based on legislation transposed from Directive 2010/31/EU of the European Parliament and Council, with guidance from the EPBD. The BACS decree represents a crucial regulatory measure aimed at enhancing energy efficiency, reducing CO₂ emissions, and promoting sustainable practices in the nonresidential building sector, aligning with broader environmental and energy efficiency goals at both the national and EU levels. This regulatory measure boosts the building automation system market in Europe.

Europe Building Automation System Market Revenue and Forecast to 2031 (US\$ Million)

Europe Building Automation System Market Segmentation

The Europe building automation system market is categorized into component, end user, and country.

Based on component, the Europe building automation system market is bifurcated into hardware and software & services. The hardware segment held a larger market share in 2023. Furthermore, the hardware segment is sub segmented into security & surveillance system, facility management systems, fire protection systems, and others.

In terms of end user, the Europe building automation system market is segmented into commercial, industrial, and residential. The commercial segment held the largest market share in 2023.

By country, the Europe building automation system market is segmented into France, Germany, the UK, Italy, Russia, and the Rest of Europe. Germany dominated the Europe building automation system market share in 2023.

ABB Ltd; Mitsubishi Electric Corp; Bosch Sicherheitssysteme GmbH; Honeywell international Inc; Schneider Electric SE; Siemens AG; Johnson Controls International Plc; Carrier Global Corp; Lutron Electronics Co., Inc; and Trane Technologies Plc, are some of the leading companies operating in the Europe building automation system market.

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