

# **India Building Automation & Control System Market By Industry Segment (HVAC Control Systems, Lighting Control Systems, Electronic Security & Safety, Building Energy Management System), By Communication Technology (Wired (Digital Addressable Lighting Interface (DALI), KONNEX (KNX), Building Automation and Control Network (BACNET), LonWorks, Modbus), Wireless (Zigbee, EnOcean, Wifi, Bluetooth, Others)), By Application (Commercial, Industrial, Residential), By Sales Channel (Direct, Indirect), By End-User (Hospitality, IT/ITES, Retail, BFSI, Transportation, Residential Complexes, Education, Manufacturing, Utilities, Others), By Region, Competition Forecast and Opportunities, 2018-2028F**

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## **Abstracts**

India building automation & control system market stood at over USD 2.23 Billion in 2023, with an estimated growth with a CAGR of more than 11% in the forecast period. Anticipated development in the market can be attributed to advancing construction activities across commercial and residential sectors. The residential sector is witnessing a rising inclination towards smart homes that consist of lighting and HVAC controls, generating demand for building automation & control systems across the country. Additionally, increasing awareness about energy conservation, supported by various

government initiatives, coupled with the growing need to reduce operating costs, is further likely to propel the demand for building automation & control systems across India over the next five years.

Increasing energy consumption across the country has compelled the government to focus more on energy savings. The total energy consumed by the buildings is around 20% from the industrial and rest 80% is from the transportation sector. Building automation and control systems are one of the solutions that building owners are adopting for efficient energy usage, which also helps reduce operating costs. Over the past decade, technological advancement and awareness about automation and energy consumption have increased the market for building automation and control systems. Temperature growth is boosting the adoption of HVAC and control systems to minimize energy consumption and bills. Additionally, rising urbanization, a large population, and growing energy demand also led to the country's building automation and control systems market growth.

The emergent driver for the growth of building automation & control systems is the expanding need for developing smart cities across the country. The Indian government introduced the Smart Cities Mission in 2015 to build the next generation cities with the smart infrastructural design, which is easily accessible and affordable and where citizen & government engagement is efficient and effective. The investment in the Smart Cities Mission is envisaged to be over INR2,05,000 crore (USD27,880 million) through 5,151 projects. 896 projects worth approximately INR15,000 crore (USD2,040 million) have been completed, and another 1,895 projects worth INR75,000 crore (USD10,200 million) are under execution. The Smart Cities mission works closely with private players and international firms, to leverage their capital, human resource, expertise, and technology.

### Growing Demand for Intelligent Buildings is Fueling the Market Growth

The next level of building automation and control system is known as Intelligent Building (IB) system. Intelligent Buildings create an environment that maximizes the comfort of the facility occupants while at the same time enabling efficient management of resources with minimum lifetime costs of hardware and facilities. In Dec 2020, L&T Technology Services Limited, a leading global engineering services firm, was recognized for its intelligent building experience management system, i-BEMSTM, with the Frost & Sullivan 2020 Global Customer Value Leadership Award.

### Increasing Government Initiatives are Driving the Market Growth

The Government of India is taking many initiatives to promote energy conservation in commercial & residential buildings. For instance, the Department of Science and Technology has announced the Initiative to Promote Habitat Energy Efficiency (IPHEE), which promotes research and development on how to save energy consumed in buildings. Also, the launch of the Energy Conservation Building Code (ECBC) in India has created awareness about promoting energy efficiency in buildings which will increase the adoption of building automation & control systems in commercial & residential buildings.

### Growth of Sensor-Controlled Environment is Driving the Market Growth

The next generation of advanced sensors can control, automate, detect and maintain various functions in the building automation and control systems. For instance, in HVAC, modern systems, sensors are used to detect concentrations of carbon dioxide and other contaminants, and this information is used to make appropriate adjustments to ventilation rates. Also, advanced sensors equipped with wireless communication technology allow individuals to have greater control of the thermal and lighting conditions.

### The era of the Internet of Things (IoT) is Driving the Market Growth

In recent years, the use of the Internet of Things (IoT) in building automation and control systems has increased manifold. The integration of intelligent building and IoT has led to the creation of Building IoT, which overlays the internet protocol for connecting all the monitoring, analysis, and control services in a facility without the intervention of humans. The age of the Internet of Things has brought about a level of cheaper and easier connectivity that takes building automation into a different era. It is predicted that traditional building automation will transform into the Building Internet of Things (BIoT) over the next few years.

### Growing Concept of Green Buildings is Steering the Market Growth

The concept of Green Buildings (or Smart Buildings) that ensures energy efficiency and conservation is growing in India. Besides energy efficiency, green buildings seek to provide renewable energy, promote waste reduction, and encourage using environment-friendly local materials. In a step to promote green buildings, the government of India has announced that all the central government public buildings must now meet ECBC requirements. It must have a green building certification issued by the Indian Green

Building Council.

## Market Segmentation

Based on Industry Segment, the market is divided into HVAC Control Systems, Lighting Control Systems, Electronic Security & Safety and Building Energy Management System. Based on Communication Technology, the market is segmented into Wired and Wireless. Based on Wired, the market is fragmented into Digital Addressable Lighting Interface (DALI), KONNEX (KNX), Building Automation and Control Network (BACNET), LonWorks and Modbus. Based on Wireless, the market is fragmented into Zigbee, EnOcean, Wifi, Bluetooth and Others. Based on Application, the market is segmented into Commercial, Industrial and Residential. Based on Sales Channel, the market is divided into Direct and Indirect. Based on the End-User, the market is segmented into Hospitality, IT/ITES, Retail, BFSI, Transportation, Residential Complexes, Education, Manufacturing, Utilities and Others. Based on the region the market is fragmented into South, West, North and East.

## Company Profiles

Honeywell Automation India Ltd., Siemens Limited, Schneider Electric India Pvt. Ltd., Johnson Controls India, ABB India Ltd., Beckhoff Automation Pvt. Ltd., Carel ACR Systems India Pvt. Ltd., Carrier Airconditioning & Refrigeration Ltd., Crestron Electronics India Pvt. Ltd., L&T Electricals and Automation Ltd. are among the major market players in the India Building Automation & Control System market.

## Report Scope:

In this report, the India Building Automation & Control System market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### India Building Automation & Control System Market, By Industry Segment:

HVAC Control Systems

Lighting Control Systems

Electronic Security & Safety

## Building Energy Management System

### India Building Automation & Control System Market, By Communication Technology:

#### Wired

Digital Addressable Lighting Interface (DALI)

KONNEX (KNX)

Building Automation and Control Network (BACNET)

LonWorks

Modbus

#### Wireless

Zigbee

EnOcean

Wifi

Bluetooth

Others

### India Building Automation & Control System Market, By Application:

Commercial

Industrial

Residential

### India Building Automation & Control System Market, By Sales Channel:

Direct

Indirect

### India Building Automation & Control System Market, By End-User:

Hospitality

IT/ITES

Retail

BFSI

Transportation

Residential Complexes

Education

Manufacturing

Utilities

Others

### India Building Automation & Control System Market, By Region:

North India

South India

West India

East India

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Building Automation & Control System market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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