



**Building
Automation**



**Vertical
Transportation**



**Process
Control**



**Real
Estate**



**Green Building
Technologies**



**ADVANCED BUILDING
TECHNOLOGIES SHOW 2023**

Global Platform For Future Building Solutions

16-18 February, 2023 | Pragati Maidan, New Delhi, India

A Focused Show at



25th International Engineering and Technology Fair

REAL ESTATE

In India, the real estate sector is the second-largest employment generator, after the agriculture sector. The growth of this sector is well complimented by the growth in the corporate environment and the demand for office space as well as urban and semi-urban accommodations. The construction industry ranks third among the 14 major sectors, in terms of direct, indirect, and induced effects in all sectors of the economy. The Real Estate sector in India is expected to reach a market size of US\$ 1 trillion by 2030 from **US\$120 billion in 2017** and contribute **13% to the country's GDP by 2025**.

VERTICAL TRANSPORTATION

India is the second largest market for elevators and escalators in the world according to independent analysts. The sector is anticipated to cross **US\$ 2 billion by 2023**.

SMART BUILDINGS AND HOW DO THEY WORK?

A smart building is loosely defined as a building or structure that uses automated processes to manage and control its operations (HVAC, lighting, security, and a variety of other systems). It does so via a fully integrated network of sensors, actuators, and microchips that all generate a constant stream of raw data that can be converted into key insights. Such insights are then harnessed for continuous improvements such as cost attainment and greater overall efficiency.

There is increasing pressure on businesses to get “greener” and lower their overall energy consumption – along with the added perks of greater employee productivity, streamlined facilities management, and improved customer experience.

ADVANCED BUILDING TECHNOLOGIES

Perhaps no technology trend has had a bigger impact on facilities management than the investment into “smart” building technologies. This already-multi-billion dollar market is growing leaps and bounds, featuring tech that ranges from optimized climate control to smart parking garages and self-cleaning bathrooms, plus many other use cases both known and still to be imagined.



Seven of the most influential smart building technologies available today, which leads to Cut Costs, Save Energy and Reduce Downtime are:

Internet of things (IOT)

- Temperature regulators
- Emergency systems
- Smart Utilities Meters

Artificial Intelligence & Machine Learning

- Automation
- Analysis of Historical Trends
- AI Enabled Service Automation Software
- Maintenance Prediction

Building Automation

- Centralised Control of
 - HVAC
 - Lighting
 - Security
- Monitoring & Controlling of
 - Temperature, Humidity
 - Electricity
 - Water Pressure
- Ensures facilities comply with all Industry Standards

Building Information Modeling (BIM)

- Record Facility Information
 - Blueprints
 - Emergency plans
 - Plumbing
 - Electrical Installation

- Storing information digitally & model them in 3D for easy access
- Real Time Asset Profiles
- Improved awareness of asset locations
- Building Handbook
- Better Utilisation of space
- Increased Building Efficiency
- Allows Test Scenarios without physical touch

Artificial Reality (AR)

- Computer generated sensory input
- Super impose non-real objects into real, physical surroundings
- Identification and added details of equipment installed

Virtual Reality (VR) - Widely used in building design and modelling

- VR Powered mock ups
- 3D internal review – experience the building and its structures through a walkaround before the actual construction
- Maintenance and upkeep

Aerial Drones

- Provide intelligent support in viewing remote areas in a building/ retail space
- Scanning shelves
- Inspecting hard to reach roof-top equipment
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VISITOR PROFILE

- Architects & Interior Designers, Lighting Designers
- System Integrators - Home & Office Automation
- Audio-video Integrators
- Home Automation Consultants
- Facility & Procurement Heads
- Turnkey Office Planners & Designers
- Hotel/ Restaurants Planners & Designers
- MEP consultants
- Acoustic Designers
- Coworking Space Designers & Founders
- Real Estate Companies
- Smart City Officials
- OEM's
- White Label Manufacturers
- Distributors & Dealers
- Electrical consultants & Contractors
- Facility Management companies
- Energy management service company
- Institution for standard development
- Low voltage electrical contractor
- Residential electronic integration system installer
- Importer / Exporter/Trading company
- Agent / Wholesaler / Distributor
- Manufacturer
- Industry end-users
- Technology Investors
- Research / Consultancy firms
- Consulting service providers
- Technology & Service providers
- Government – Departments, Agencies, Bureaucrats, PSUs and Ministry officials
- Financial Institution
- Corporate houses
- HNIs & Professionals - CMOs/CEOs/CFOs/ CXOs of top brands
- Tech Press & Media

EXHIBITOR PROFILE

Real Estate

- Developers, Architects, Designers, Government Agencies

Vertical Transportation

- Elevator/Escalator Manufacturers
- Lift Components & accessories Manufacturers
- Industrial Lifts
- Panoramic Elevators
- Vertical Transportation Consultants
- Residential and commercial lifts
- Freight and Service Elevators
- Garage & Parking Elevators
- Elevators for Specially Aabled

Advanced Building Technologies

- Internet of Things (IoT)
- Artificial Intelligence & Machine Learning
- Building Automation
- Building Information Modeling (BIM)
- Artificial Reality (AR)
- Virtual Reality (VR)
- Aerial Drones
- 3D printing
- Cladding systems
- Computer aided design and computer aided manufacturing (CAD/CAM)
- Computer numerical control
- Construction Innovation Hub
- Construction plant

- Modern methods of construction
- Modular construction
- Offsite manufacturing
- Prefabrication and preassembly
- Research and development
- Site investigations and surveying
- Substructure works
- Water engineering
- Temporary works
- Smart technology
- Robotics
- GPS controlled equipment

Home Automation

- Lighting control
- HVAC
- Outdoor lawn irrigation
- Kitchen appliances
- Security systems

Sustainable Building Products and Technology

- Solar power
- Carbon capture and storage technologies,
- Self-sufficient and LEED buildings and construction methods
- Radiant floors
- Gray water recycling
- Solar power
- Geothermal systems
- Energy efficient window systems

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