

Intelligent Building Energy Management Systems Market Set to Strong Growth to Reach USD 2,073.3 million by 2031

Intelligent Building Energy Management Systems Market size, growth drivers, trends, segmentation, and regional outlook through 2031.

AUSTIN, TX, UNITED STATES, January 9, 2026 /EINPresswire.com/ -- Market Size and Growth

According to DataM Intelligence, the Global [Intelligent Building Energy Management Systems Market](#) was valued at USD 891.6 million in 2022 and is projected to reach USD 2,073.3 million by 2031, expanding at a CAGR of 11.1% during the forecast period 2024–2031.



The market growth is driven by rapid urbanization, rising electricity prices, tightening carbon emission regulations, and accelerating adoption of smart buildings across commercial, industrial, and residential sectors. Intelligent Building Energy Management Systems leverage AI, IoT sensors, cloud analytics, and machine learning algorithms to monitor, optimize, and automate energy consumption across HVAC, lighting, power distribution, and renewable energy systems.

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Future of Intelligent Building Energy Management Systems Explained and Forecast to GCC and MEA, US, Japan”

DataM Intelligence 4Market Research LLP

By enabling real-time energy optimization, predictive maintenance, and demand-response capabilities, IBEMS are becoming foundational to net-zero buildings, smart

cities, and ESG-driven infrastructure development.

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Growth Drivers

- Global building energy consumption accounts for over 30% of total electricity usage, prompting governments and enterprises to deploy intelligent energy optimization systems.
- Commercial electricity tariffs increased 18–25% globally between 2022–2024, accelerating ROI-driven adoption of IBEMS.
- Over 68% of newly constructed commercial buildings in developed economies integrated smart energy management solutions in 2024.
- AI-driven energy optimization can reduce building energy consumption by 20–35% annually, driving enterprise investments.
- Global green building certifications (LEED, BREEAM, WELL) increased by 41% since 2021, strengthening IBEMS demand.

Market Segmentation Analysis

By Component

The market is segmented into Hardware, Software, and Services.

- Software dominates with 46% market share (USD 4.53 billion in 2024), driven by AI-powered energy analytics platforms, building automation software, and cloud dashboards. It is projected to exceed USD 20.1 billion by 2032 at 21.4% CAGR.
- Hardware (smart meters, sensors, controllers, gateways) accounts for 34% (USD 3.34 billion) and will reach USD 13.2 billion by 2032, supported by IoT penetration in buildings.
- Services (installation, system integration, maintenance, energy consulting) represent 20% (USD 1.97 billion) and are projected to grow at 22.6% CAGR, driven by retrofit projects.

By Building Type

- Commercial Buildings lead with 48% share (USD 4.72 billion in 2024), expected to exceed USD 21.4 billion by 2032, driven by offices, malls, hospitals, and airports.
- Industrial Buildings account for 32% (USD 3.15 billion), projected to reach USD 13.8 billion,

fueled by manufacturing energy optimization mandates.

- Residential Buildings hold 20% (USD 1.97 billion) and are growing rapidly due to smart home integration and rising utility costs.

By Deployment Mode

- Cloud-Based IBEMS dominate with 62% share (USD 6.1 billion), projected to surpass USD 28.3 billion by 2032, owing to scalability, AI analytics, and remote monitoring.
- On-Premises Systems account for 38% (USD 3.74 billion), primarily used in government facilities, defense infrastructure, and critical industrial operations.

By Application

- HVAC Energy Optimization represented 34% (USD 3.34 billion in 2024) and remains the largest application segment.
- Lighting Energy Management accounted for 22% (USD 2.16 billion), supported by LED and smart lighting retrofits.
- Power & Load Management held 18% (USD 1.77 billion), growing rapidly with grid-interactive buildings.
- Renewable Energy Integration & Storage Management represented 16% (USD 1.57 billion).
- Others (Water, EV Charging, Elevators) comprised 10% (USD 984 million).

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Regional Insights

North America

North America led the market with USD 3.6 billion in 2024, projected to reach USD 14.9 billion by 2032, growing at 19.5% CAGR.

- The U.S. Department of Energy allocated USD 3.3 billion toward smart building and energy efficiency programs.
- Over 55% of large commercial buildings in the U.S. deploy AI-based energy management

platforms.

Europe

Europe accounted for USD 2.8 billion in 2024, expected to reach USD 11.6 billion by 2032.

- EU Energy Performance of Buildings Directive (EPBD) mandates smart energy systems for commercial buildings by 2030.
- Germany, France, and the Nordics lead adoption of AI-based building automation.

Asia-Pacific

Asia-Pacific is the fastest-growing region, expanding at 22.8% CAGR, from USD 2.1 billion in 2024 to USD 10.8 billion by 2032.

- China, Japan, South Korea, and India are investing heavily in smart cities and green infrastructure.
- Japan mandates smart energy systems for all large public buildings under its Green Growth Strategy.

Middle East & Africa

MEA reached USD 790 million in 2024, projected to exceed USD 3.1 billion by 2032.

- UAE and Saudi Arabia are integrating IBEMS into giga-projects such as NEOM and Masdar City.

South America

South America accounted for USD 550 million in 2024, reaching USD 2.2 billion by 2032, driven by commercial building retrofits in Brazil and Chile.

Competitive Landscape

According to DataM Intelligence, the Intelligent Building Energy Management Systems Market is moderately consolidated, with global automation leaders and energy software providers dominating.

Key Players

Schneider Electric | Siemens AG | Honeywell International | Johnson Controls | ABB Ltd | Eaton Corporation | IBM | Emerson Electric | Siemens Smart Infrastructure | Cisco Systems, Inc.,

BuildingIQ Inc.

Key Highlights

- Schneider Electric reported USD 7.4 billion in smart building and energy software revenues in 2024.
- Siemens Smart Infrastructure recorded 19% YoY growth driven by digital building platforms.
- Honeywell's Forge Energy Optimization Suite reduced energy consumption by up to 30% across deployed sites.

Recent Developments

- Siemens launched AI-driven Building X Energy Optimizer platform
- Schneider Electric expanded EcoStruxure Building with real-time carbon analytics
- Johnson Controls introduced OpenBlue Net Zero Advisor for large campuses
- Honeywell partnered with Google Cloud for predictive building energy analytics
- ABB deployed AI-based energy systems across smart industrial parks in Asia

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Market Outlook & Opportunities

- Global smart buildings using IBEMS to exceed 1.8 million by 2032.
- AI-powered energy optimization software to account for over 50% of total IBEMS revenues.
- Net-zero buildings to drive USD 12+ billion incremental demand by 2032.
- Integration with EV charging infrastructure to unlock USD 4.5 billion in new revenue streams.
- Retrofit projects to grow faster than new constructions through 2030.

Conclusion

The Global Intelligent Building Energy Management Systems Market is becoming a cornerstone of sustainable infrastructure, IBEMS adoption is accelerating across commercial, industrial, and

residential buildings worldwide.

According to DataM Intelligence, industry leaders such as Schneider Electric, Siemens, Honeywell, and Johnson Controls are shaping the future of energy-efficient buildings through AI, IoT, and cloud-driven automation. As energy costs rise and carbon regulations tighten, intelligent energy management systems will transition from efficiency tools to mandatory digital infrastructure by 2032.

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