

# **Energy Management System Market Report by Component (Sensors, Controllers, Software, Batteries, Display Devices, and Others), Product (Industrial Energy Management Systems (IEMS), Building Energy Management Systems (BEMS), Home Energy Management Systems (HEMS)), Solution (Carbon Energy Management, Demand Response Management, Utility Billing and Customer Information System), Industry Vertical (Power and Energy, Telecom and IT, Manufacturing, Retail and Offices, Healthcare, and Others), End Use (Residential, Commercial), and Region 2025-2033**

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## **Abstracts**

The global energy management system market size reached USD 60.5 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 154.5 Billion by 2033, exhibiting a growth rate (CAGR) of 11% during 2025-2033. The growing pace of urbanization and industrialization, rising awareness about the consequences of environment, operational efficiency, and continuous improvements in the internet of things (IoT), machine learning (ML), and data analytics are some of the key factors impelling the market growth.

Energy Management System Market Analysis:

Major Market Drivers: The market is experiencing strong growth because of the

increasing awareness about energy efficiency and sustainable practices across industries.

**Key Market Trends:** The increasing trend of cloud-based energy management systems provides scalability, remote access, and lower initial expenses, which are especially appealing to small and medium-sized businesses.

**Geographical Trends:** North America dominates the market owing to the rising implementation of strict government regulations regarding energy efficiency and the high availability of advanced technological infrastructure.

**Competitive Landscape:** Some of the major market players in the energy management system industry include C3.ai Inc., Delta Electronics Inc., Eaton Corporation PLC, Emerson Electric Co., General Electric Company, Honeywell International Inc., Johnson Controls International PLC, Rockwell Automation Inc., Schneider Electric SE, Siemens AG, Toshiba Corporation, Yokogawa Electric Corporation, among many others.

**Challenges and Opportunities:** The energy management system market revenue is being impacted by the high cost and complicated nature of deploying advanced solutions, which may discourage small and medium enterprises (SMEs). However, advancements in affordable and easy-to-use systems are supporting market growth by reaching a wider range of users.

#### Energy Management System Market Trends/Drivers:

##### Regulatory Compliance

One of the main factors driving the energy management systems demand is the increasingly strict regulatory environment that prioritizes sustainability and energy efficiency. Governments and regulatory agencies around the globe are enforcing stringent regulations and rigid standards that require a decrease in both energy usage and greenhouse gas emissions. Businesses must follow these rules to prevent hefty penalties and legal consequences, leading to the implementation of energy management system (EMS) into a mandatory rather than optional task. Adherence to these regulations frequently requires thorough reporting and monitoring in real-time, which are essential components of the majority of EMS platforms. Introduced in India on March 19, 2021, the Gram Ujala initiative was designed to swap out ineffective lightbulbs with energy-efficient light-emitting diode (LED) bulbs, leading to significant electricity conservation. This program provided over 3.3 million LED bulbs which

resulted in an estimated annual energy savings of 467 million kWh. Beside this, the need for adhering to such stringent regulations is catalyzing the demand for advanced, trustworthy, and compliant energy management systems.

### Rising Energy Costs

The rise in energy costs is another important factor influencing the energy management systems market growth. Organizations are facing higher operational expenses due to continual increase in energy costs, which in turn impacts their profitability. This is causing a greater emphasis on improving energy usage in order to achieve cost reductions. Businesses are incorporating EMS to efficiently oversee and regulate their energy use. The financial appeal of EMS is heightened by the notable energy savings obtained, leading to a rapid return on investment (ROI). This financial benefit is greatly impacting businesses to incorporate EMS into their current systems, strengthening the market growth. According to the Energy Information Administration (EIA), fossil fuels, such as coal, natural gas, and petroleum, accounted for approximately 81% of the United States' primary energy production in 2022. In 2022, the US generated 102.92 quads of energy, with consumption hitting 100.41 quads.

### Technological Advancements

The rapid advancements in technology, especially in internet of things (IoT), data analytics, and artificial intelligence (AI), are providing a positive energy management system market outlook. These developments are improving the efficiency, adaptability, and customization of EMS. Modern EMS platforms offer features, such as real-time analytics, predictive maintenance, and automation because of increasing technological advancements. These enhancements not only enhance energy management efficiency but also streamline its implementation, ultimately lowering barriers for small businesses seeking to begin. In 2023, data from the SBA Office of Advocacy showed that there were 33,185,550 small businesses operating in the United States. As these improvements continue, they support the creation of more advanced energy management solutions, which help drive long-term market growth. Additionally, in 2023, France initiated a ?750 million funding opportunity for 6G initiatives, focusing on research and development (R&D) in cutting-edge networking technologies such as virtualization and edge computing, in accordance with the France 2030 strategy. This initiative seeks to increase the nation's control over its technology and encourage eco-friendly advancements in the telecommunications industry.

### Energy Management System Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global energy management system market report, along with forecasts at the global, regional, and country levels for 2025-2033. Our report has categorized the market based on component, product, solution, industry vertical, and end use.

#### Breakup by Component:

Sensors

Controllers

Software

Batteries

Display Devices

Others

Sensors represents the largest market segment

The report has provided a detailed breakup and analysis of the market based on the component. This includes sensors, controllers, software, batteries, display devices, and others. According to the report, sensors represented the largest segment.

Sensors play a crucial role in facilitating efficient energy monitoring and control. These are the main units of data collection and provide instantaneous information on temperature, pressure, energy consumption, and other relevant metrics. The information is inputted into the EMS for examination and decision-making, highlighting the essential role sensors play in the system's overall operation. In various environments like factories and houses, sensors assist in recognizing inefficiencies, allowing for automated controls, and supporting predictive maintenance. Sensor technology is becoming more advanced, with features like wireless capability and downsizing, making its use more versatile and discreet. The wireless sensor market reached a value of US\$ 11.9 billion globally in 2023. According to IMARC Group's prediction, this industry is expected to see significant growth by 2032, reaching a valuation of US\$ 49.0 billion. The predicted compound annual growth rate (CAGR) for

this market between 2024 and 2032 is 16.5%. Moreover, the declining costs of sensor components are helping to make EMS systems more affordable and accessible. As the demand for real-time data and analytics increases across a range of sectors, the sensors component industry is projected to encounter sustained demand and innovation.

#### Breakup by Product:

Industrial Energy Management Systems (IEMS)

Building Energy Management Systems (BEMS)

Home Energy Management Systems (HEMS)

Industrial energy management systems (IEMS) represents the largest market segment

The report has provided a detailed breakup and analysis of the market based on the product. This includes industrial energy management systems (IEMS), building energy management systems (BEMS), and home energy management systems (HEMS). According to the report, industrial energy management systems (IEMS) represented the largest segment.

A vital part of the larger energy management system market is the industrial energy management systems (IEMS) sector, which was developed especially to satisfy the requirements of refineries, manufacturing facilities, and other industrial facilities. Within such complex environments, energy consumption is often one of the most significant operational costs, making effective energy management essential. IEMS helps industrial organizations monitor, control, and optimize their energy usage in real-time, directly impacting their bottom line by reducing energy costs. These systems integrate seamlessly with existing manufacturing processes and supply chain logistics, providing a holistic approach to energy optimization. Advanced features like machine learning algorithms and predictive analytics allow these systems to adapt and improve over time, offering long-term benefits. The push for sustainable industrial practices, along with stringent governmental regulations on energy efficiency and emissions, make IEMS increasingly vital. This segment is poised for growth as industries worldwide focus on achieving a balance between operational efficiency and sustainability. In 2024, Vedanta Lanjigarh implemented an advanced Energy Management System to monitor critical electrical assets, enhancing energy efficiency and reducing GHG emissions in its

alumina refinery operations. This digitalization effort aligns with Vedanta's commitment to achieve Net Zero Carbon by 2050 through sustainable practices.

#### Breakup by Solution:

Carbon Energy Management

Demand Response Management

Utility Billing and Customer Information System

Carbon energy management represents the largest market segment

The report has provided a detailed breakup and analysis of the market based on the solution. This includes carbon energy management, demand response management, and utility billing and customer information system. According to the report, carbon energy management represented the largest segment.

In the evolving landscape of energy management systems (EMS), the Carbon Energy Management Solutions segment is increasingly prominent, mainly due to the global push towards reducing carbon footprints and achieving sustainability goals. This specialized EMS solution focuses on monitoring, measuring, and managing an organization's carbon emissions, often across multiple facilities or even globally. Businesses in sectors such as manufacturing, retail, healthcare, and utilities find these solutions particularly valuable as they strive to meet both regulatory requirements and corporate sustainability objectives. According to the retail industry report presented by India Brand Equity Foundation (IBEF) in 2023, in India, the retail industry employs more than 35 million people and contributes more than 10% of the GDP of the nation. By 2030, it is anticipated to generate 25 million new jobs. Advanced carbon energy management systems offer features like real-time carbon emission monitoring, predictive analytics for emission reduction, and integration with existing operational technologies. These functionalities help companies to not only comply with stringent environmental regulations but also to improve their brand image by showcasing a commitment to sustainability. As more organizations aim to be part of the global climate solution, the demand for carbon energy management solutions is expected to continue its upward trajectory.

#### Breakup by Industry Vertical:

Power and Energy

Telecom and IT

Manufacturing

Retail and Offices

Healthcare

Others

Power and Energy represents the largest market segment

The report has provided a detailed breakup and analysis of the market based on the industry vertical. This includes power and energy, telecom and IT, manufacturing, retail and offices, healthcare, and others. According to the energy management system market report, power and energy represented the largest segment.

The power and energy sector represents a critical segment in the energy management system (EMS) market, driven by the intrinsic need to optimize energy generation, distribution, and consumption. Within this industry, EMS plays an invaluable role in improving grid reliability, balancing supply and demand, and enhancing overall operational efficiency. The sector faces unique challenges such as fluctuating energy prices, stringent environmental regulations, and the critical need for uninterrupted power supply. Advanced EMS platforms equipped with real-time analytics, predictive algorithms, and automation features are especially useful in these scenarios, allowing for more agile and responsive energy management. Additionally, the integration of renewable energy sources like solar and wind into the power grid has necessitated more sophisticated management systems to handle the variability and complexity involved. As per the data given by the Office of Energy Efficiency & Renewable Energy, in 2021, the U.S. wind industry created around 13,413 megawatts (MW) of new wind capacity, totaling 135,886 MW cumulatively. In this context, EMS becomes an essential tool for achieving long-term sustainability and operational excellence, making it a focal point for investment and innovation in the power and energy industry.

Breakup by End Use:

Residential

Commercial

The report has provided a detailed breakup and analysis of the market based on the end use. This includes residential and commercial.

The residential segment of the energy management system (EMS) market is experiencing significant growth, largely driven by increasing consumer awareness about energy efficiency and sustainability. In this segment, EMS primarily serves households, helping homeowners monitor, control, and optimize electricity consumption for appliances, heating, and cooling systems. Advances in smart home technologies, such as IoT-enabled devices, offer easy-to-use platforms that even allow remote control via smartphones. The rise in residential solar power installations has also contributed to EMS adoption, as these systems can be integrated to manage and store solar energy efficiently. Moreover, governmental incentives to install energy-efficient solutions in residences amplify the segment's growth. Overall, EMS solutions in the residential segment aim to reduce energy bills, lessen the environmental impact, and provide a more comfortable living environment.

In the commercial sector, energy management systems are vital tools for organizations aiming to reduce operational costs and comply with regulatory standards. This segment spans a wide range of facilities, including offices, retail spaces, hotels, and hospitals. The focus here is not just on energy conservation but also on optimizing energy use to achieve better operational efficiency. Advanced EMS platforms provide real-time data analytics and automation features, which are integral for businesses to make quick and informed decisions. Sustainability goals, corporate social responsibility, and the desire to improve brand image are additional drivers for EMS adoption in commercial settings. With rising energy costs and stricter regulations, commercial enterprises find EMS solutions to be a strategic investment for long-term sustainability and cost-effectiveness.

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

North America exhibits a clear dominance, accounting for the largest energy management system market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

The rising demand for energy-efficient solutions in North America's commercial and industrial sectors is a pivotal driver for the energy management system (EMS) market. Moreover, advancements in EMS technology, including IoT and machine learning capabilities, are resulting in highly effective and eco-friendly systems, thereby encouraging market adoption. The robust economic landscape in the region, particularly among business enterprises, enables greater investment in smart and sustainable energy management practices. As per the report published by the Bureau of Economic Analysis of the United States Department of Commerce, in 2022, the GDP of the USA grew by 9.2 percent, reaching \$25.46 trillion.

In addition, digital platforms specializing in energy solutions are increasing the availability of EMS products, thereby enriching market dynamics. Furthermore, the growing focus on sustainable operational practices in harmony with governmental initiatives aimed at reducing carbon footprints, thus fortifying market growth across North America. Participation in international forums and virtual events centered on sustainable energy practices is fostering a positive outlook for the EMS market in the region.

Competitive Landscape:

Key energy management system companies are focusing on innovation and strategic partnerships to stay competitive. Companies are investing heavily in research and development (R&D) to create more sophisticated, user-friendly systems that provide real-time analytics and control over energy usage. These organizations are also

entering into collaborations with technology providers and regional businesses to expand their reach and tailor solutions for specific market needs. Additionally, they are increasing their emphasis on sustainability by integrating renewable energy sources and advanced algorithms that optimize energy consumption. In September 2023, Yokogawa Electric Corporation supplied an Integrated Energy Management System for the Yuri Green Hydrogen Project in Australia, managing renewable energy production for green hydrogen generation. This supports the project's aim to produce green hydrogen using carbon-free solar energy.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

C3.ai Inc.

Delta Electronics Inc.

Eaton Corporation PLC

Emerson Electric Co.

General Electric Company

Honeywell International Inc.

Johnson Controls International PLC

Rockwell Automation Inc.

Schneider Electric SE

Siemens AG

Toshiba Corporation

Yokogawa Electric Corporation

(Kindly note that this only represents a partial list of companies, and the complete list

has been provided in the report.)

### Energy Management System Market Recent Developments:

August 2023: Rockwell Automation (NYSE: ROK) has announced that it intends to partner with Fork Farms, an agtech startup based in Green Bay, to construct a 7,300-square-foot indoor hydroponic vertical farm at Rockwell's Milwaukee main office by the summer of 2024.

February 2023: Schneider Electric has displayed its Sustainable & Digital Solutions at ELECRAMA 2023, reiterating its dedication to supporting India's self-sufficiency initiative, Atmanirbhar Bharat.

August 2023: Toshiba Corp. declared that it intends to start LED lantern sharing service trial in Republic of Vanuatu.

### Key Questions Answered in This Report

- 1.How big is the energy management system market?
- 2.What is the expected growth rate of the global energy management system market during 2025-2033?
- 3.What are the key factors driving the global energy management system market?
- 4.What has been the impact of COVID-19 on the global energy management system market?
- 5.What is the breakup of the global energy management system market based on the component?
- 6.What is the breakup of the global energy management system market based on the product?
- 7.What is the breakup of the global energy management system market based on the solution?
- 8.What is the breakup of the global energy management system market based on the industry vertical?

9.What are the key regions in the global energy management system market?

10.Who are the key players/companies in the global energy management system market?

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