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Utility Automation Market Forecasts to 2034 – Global Analysis By Component (Intelligent Electronic Devices, Automation Control Systems, Utility Communication Networks, Utility Management Software and Other Components), Utility Type, Infrastructure Type, Application, End User, and Geography

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Abstracts

According to Stratistics MRC, the Global Utility Automation Market is accounted for $32.5 billion in 2026 and is expected to reach $72.0 billion by 2034 growing at a CAGR of 10.4% during the forecast period. Utility automation involves the implementation of intelligent control systems, sensors, communication networks, and software platforms to automate the operation and management of utility infrastructure such as electricity, water, and gas networks. These systems enable real-time monitoring, fault detection, load balancing, remote operations, and predictive maintenance to improve reliability and operational efficiency. Utility automation supports smart grid development, energy optimization, and faster response to service disruptions. Increasing urbanization, renewable energy integration, and demand for efficient infrastructure management are driving adoption of automation technologies across global utility sectors.

Market Dynamics:

Driver:

Growing smart grid deployments

Smart grids enable real-time monitoring, efficient energy distribution, and reduced

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transmission losses. Utilities benefit from improved reliability and customer satisfaction. Governments are supporting smart grid initiatives through subsidies and policy frameworks. Vendors are introducing advanced automation solutions tailored for grid modernization. Awareness among consumers about sustainable energy usage is growing rapidly. This rising deployment of smart grids is propelling the market forward.

Restraint:

Complex integration with legacy networks

A major restraint is the complexity of integrating automation solutions with legacy utility networks. Many regions operate outdated infrastructure that complicates modernization. High costs of integration discourage smaller utilities from adoption. Skilled workforce shortages further slow implementation. Vendors must provide extensive support to ensure seamless compatibility. Regulatory compliance adds another layer of difficulty.

Opportunity:

AI-driven utility monitoring systems

Artificial intelligence enables predictive maintenance and real-time fault detection. Utilities benefit from reduced downtime and improved efficiency. Manufacturers are investing in AI-powered platforms tailored to diverse energy networks. Governments are encouraging AI adoption through funding and pilot projects. Partnerships between AI firms and utilities are expanding reach. This advancement in AI monitoring is unlocking new growth opportunities in utility automation.

Threat:

Regulatory uncertainty in energy policies

Frequent changes in government frameworks create challenges for long-term planning. Vendors face difficulties in ensuring compliance across diverse regions. Smaller utilities hesitate to invest heavily due to unpredictability. High costs of policy adaptation add financial pressure. Governments are tightening enforcement but inconsistencies remain. These uncertainties in regulation are posing hurdles to consistent market expansion.

Covid-19 Impact:

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Covid-19 had a mixed impact on the utility automation market. On one hand, demand rose as utilities sought automation to maintain operations with reduced staff. Automated systems became essential in energy distribution and monitoring. Online platforms supported deployment of automation technologies. On the other hand, economic uncertainty limited investments in advanced systems. Supply chain delays slowed equipment availability. Overall, the pandemic acted as a catalyst, accelerating awareness and long-term adoption.

The automation control systems segment is expected to be the largest during the forecast period

The automation control systems segment is expected to account for the largest market share during the forecast period as these systems form the backbone of modern utilities, ensuring efficiency, scalability, and reliability in energy distribution. Adoption is strong among large-scale utility providers. Manufacturers are investing in durable and high-performance control systems. Governments are supporting modernization through subsidies and pilot projects. Awareness campaigns highlight the importance of control systems in smart grids. Utility penetration of automation platforms is widespread across global energy networks.

The renewable energy operators segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the renewable energy operators segment is predicted to witness the highest growth rate due to rising demand for automation solutions that optimize solar, wind, and hydroelectric energy production. Operators benefit from improved efficiency and reduced costs. Governments are funding initiatives to accelerate renewable energy adoption. Partnerships between automation vendors and renewable firms are expanding reach. Awareness campaigns emphasize the role of automation in sustainable energy. Startups are rapidly entering the renewable sector with innovative models.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to advanced energy infrastructure, strong investment capacity, and early adoption of automation technologies. The US and Canada host leading innovators in utility automation. Policy frameworks encourage modernization across energy networks. Enterprises are increasingly deploying premium automation systems. Utility

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penetration of automated solutions is widespread across the region. Academic institutions are actively researching AI-driven energy applications.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by supportive government subsidies for smart grid initiatives. Countries such as China, India, and Japan are investing heavily in utility automation. Affordable solutions are gaining traction among mid-sized utilities. Rural electrification programs are expanding access to advanced systems. E-commerce platforms are helping distribute automation tools to diverse energy networks. Younger demographics are increasingly drawn to sustainable energy solutions.

Key players in the market

Some of the key players in Utility Automation Market include Siemens AG, ABB Ltd., Schneider Electric SE, General Electric Company, Honeywell International Inc., Emerson Electric Co., Eaton Corporation plc, Hitachi Ltd., Itron Inc., Landis+Gyr Group AG, Oracle Corporation, IBM Corporation, Cisco Systems Inc., Trilliant Holdings Inc. and Sensus USA Inc.

Key Developments:

In January 2026, Schneider Electric SE reported a major expansion of its EcoStruxure Micro Data Center portfolio, introducing ruggedized, pre-integrated on-premises edge enclosures designed specifically for harsh manufacturing and port logistics environments. This product launch houses localized AI compute nodes adjacent to physical assembly operations, minimizing latency for automated microgrid load switching and predictive machine maintenance.

In October 2025, Honeywell International Inc. reported a comprehensive expansion of its Honeywell SwiftCheck™ self-checkout software platform, embedding advanced acoustic and visual anomaly detection models into retail terminal arrays. This technical update links high-frequency scan data with point-of-sale hardware, automating the instant detection of mis-scanned barcodes or ticket-switching attempts to protect retail margins without requiring constant intervention from floor supervisors.

Components Covered:

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- Intelligent Electronic Devices
- Automation Control Systems
- Utility Communication Networks
- Utility Management Software
- Other Components

Utility Types Covered:

- Electric Utility Automation Systems
- Water Utility Automation Systems
- Gas Utility Automation Systems
- Renewable Energy Utility Automation Systems
- Other Utility Types

Infrastructure Types Covered:

- Transmission Infrastructure Automation Systems
- Distribution Infrastructure Automation Systems
- Substation Automation Systems
- Smart Grid Infrastructure Automation Systems
- Other Infrastructure Types

Applications Covered:

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- Grid Monitoring Applications
- Outage Management Applications
- Load Balancing Applications
- Remote Asset Management Applications
- Other Applications

End Users Covered:

- Electric Utility Providers
- Water Utility Providers
- Gas Distribution Companies
- Renewable Energy Operators
- Other End Users

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom
  - Germany

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- France
- Italy
- Spain
- Netherlands
- Belgium
- Sweden
- Switzerland
- Poland
- Rest of Europe

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Thailand
- Malaysia
- Singapore

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- Vietnam
- Rest of Asia Pacific

South America

- Brazil
- Argentina
- Colombia
- Chile
- Peru
- Rest of South America

Rest of the World (RoW)

- Middle East
  - Saudi Arabia
  - United Arab Emirates
  - Qatar
  - Israel
  - Rest of Middle East
- Africa
  - South Africa
  - Egypt
  - Morocco

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Rest of Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

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