

IoT In Utilities Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Platform, Solutions, Services, Other Components), By Technology (Sensors, RFID, Connectivity Technology), By Application

<https://marketpublishers.com/r/I3CB470FF63AEN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: I3CB470FF63AEN

Abstracts

The IoT In Utilities Market is valued at USD 49.7 billion in 2025 and is projected to grow at a CAGR of 11.1% to reach USD 127.9 billion by 2034. The IoT in Utilities Market enables energy, water, and waste service providers to optimize infrastructure, reduce losses, and improve service delivery through real-time monitoring and automation. IoT technologies—ranging from smart meters and leak detectors to grid sensors and predictive maintenance platforms—offer utilities granular control over assets and consumption patterns. These solutions help utilities balance supply and demand, reduce outage duration, manage energy efficiency programs, and proactively maintain infrastructure. IoT also supports regulatory compliance, environmental sustainability, and customer engagement by providing actionable insights and transparent data sharing. As utilities modernize aging grids and infrastructure while transitioning toward clean energy and digital operations, IoT is emerging as a foundational enabler of the utility sector's transformation. IoT adoption in utilities surged due to growing energy demands, grid decentralization, and climate-focused regulations. Power companies deployed IoT sensors for fault detection, voltage regulation, and real-time load balancing across substations. Water utilities adopted smart meters and leak detection systems to reduce non-revenue water loss and track consumption more accurately. Municipal waste services implemented route optimization tools linked to fill-level sensors in bins, improving efficiency and reducing emissions. Grid operators expanded IoT-based predictive maintenance platforms to monitor aging transformers and substations. Utilities began integrating IoT with renewable energy systems—like solar panels and battery storage—to stabilize grid performance during fluctuating demand. In

parallel, customer-facing portals and mobile apps empowered users with real-time energy data and personalized conservation tips. The IoT in utilities market will shift toward AI-driven grid intelligence, edge-based analytics, and full-scale integration with smart homes and electric vehicles. Predictive maintenance will evolve with machine learning models detecting infrastructure stress and optimizing repair cycles. Real-time energy pricing and dynamic load management will be supported by IoT sensors that interact with consumer appliances and grid-edge devices. Utilities will deploy digital twins of grid infrastructure to model outages, optimize maintenance schedules, and test future scenarios. As electrification and decentralized energy resources grow, IoT will help orchestrate bi-directional flows and grid responsiveness. Additionally, cybersecurity and regulatory compliance will play an increasing role in system design, driving demand for secure, scalable, and standards-compliant IoT architectures across the utility sector.

Key Insights IoT In Utilities Market

OG Analysis highlights the expansion of smart grid technologies using IoT sensors for real-time outage detection, grid balancing, and voltage optimization across both transmission and distribution systems.

Smart water metering and leak detection systems are trending, helping utilities reduce waste, detect anomalies, and ensure accurate billing while supporting sustainability and drought management efforts.

According to OG Analysis, digital twins are emerging in utilities for infrastructure simulation, enabling proactive planning, maintenance optimization, and risk analysis of substations, pipelines, and storage facilities.

IoT integration with renewable energy assets—like solar and wind—is growing, providing real-time performance data and grid synchronization capabilities for decentralized energy management.

Consumer engagement platforms powered by IoT are increasing, offering real-time energy usage insights, alerts, and conservation suggestions via mobile apps and smart thermostats.

OG Analysis identifies aging infrastructure and increasing service reliability expectations as key drivers pushing utilities to invest in IoT for proactive monitoring and predictive maintenance capabilities.

Decarbonization efforts and renewable energy integration are driving IoT adoption, as utilities seek real-time data and grid control to manage intermittent and distributed energy sources, says OG Analysis.

OG Analysis notes that regulatory mandates on energy efficiency, water conservation, and emissions tracking are accelerating the deployment of IoT technologies across the utility value chain.

Cost-saving opportunities from automated meter reading, outage management, and reduced truck rolls are motivating utility providers to digitize operations using IoT platforms.

OG Analysis highlights cybersecurity risks as a primary concern in utility IoT deployments, particularly for critical infrastructure that may be targeted by sophisticated threats requiring robust defense mechanisms.

According to OG Analysis, integrating IoT with legacy utility systems—many of which lack digital interfaces—remains complex and costly, often requiring middleware and phased modernization strategies.

IoT In Utilities Market Segmentation

By Component

Platform

Solutions

Services

Other Components

By Technology

Sensors

RFID

Connectivity Technology

By Application

Electricity Grid Management

Gas Management

Water and Waste Management

Other Applications

Key Companies Analysed

International Business Machines Corporation

Oracle Corporation

Verizon Communications Inc.

Cisco Systems Inc.

Vodafone Group Plc

Telit Communications PLC

Landis+Gyr AG

Itron Inc.

Schneider Electric SE

Huawei Technologies Co. Ltd.

Trimble Inc.

Asea Brown Boveri Corporation

Honeywell International Inc.

Siemens AG

General Electric

Aclara Technologies LLC

Trilliant Networks Inc

Energyworx

Hindustan Computers Limited

Altair Engineering

Actility S. A

WAVIoT

Rayven LLC

Bosch Software Innovations

C3. ai Inc.

Parametric Technology Corporation

Spectrum

Samsara Inc.

Advanced RISC Machines Ltd.

Sierra Wireless

SoluLab

Silver Spring Networks

Sensus

Badger Meter Inc.

Kamstrup A/S

Elster Group GmbH

lot In Utilities Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

lot In Utilities Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — lot In Utilities market data and outlook to 2034

United States

Canada

Mexico

Europe — lot In Utilities market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — lot In Utilities market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — lot In Utilities market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — lot In Utilities market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the lot In Utilities value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

lot In Utilities Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Platform, Solutions...

What is the current and forecast market size of the lot In Utilities industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the lot In Utilities Market Report

Global lot In Utilities market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on lot In Utilities trade, costs, and supply chains

lot In Utilities market size, share, and outlook across 5 regions and 27 countries, 2023-2034

lot In Utilities market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term lot In Utilities market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and lot In Utilities

supply chain analysis

lot In Utilities trade analysis, lot In Utilities market price analysis, and lot In Utilities supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest lot In Utilities market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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