

Connected Street Lights Market Size, Share, and Outlook, 2025 Report- By Application (Video Surveillance, Environmental Monitoring, Traffic Monitoring, Weather and Pollution Monitoring, Others), By Component (System, Software), By Technology (Image Sensors, Seismic Sensors, Sound Sensors, Others), By Connectivity (Wired, Wireless), 2018-2032

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Abstracts

Connected Street Lights Market Outlook

The Connected Street Lights Market size is expected to register a growth rate of 17.9% during the forecast period from \$3.44 Billion in 2025 to \$10.9 Billion in 2032. The Connected Street Lights market is a thriving business that is poised to keep growing and presents potential growth opportunities for companies across the industry value chain.

The comprehensive market research report presents 12-year historic and forecast data on Connected Street Lights segments across 22 countries from 2021 to 2032. Key segments in the report include By Application (Video Surveillance, Environmental Monitoring, Traffic Monitoring, Weather and Pollution Monitoring, Others), By Component (System, Software), By Technology (Image Sensors, Seismic Sensors, Sound Sensors, Others), By Connectivity (Wired, Wireless). Over 70 tables and charts showcase findings from our latest survey report on Connected Street Lights markets.

Connected Street Lights Market Insights, 2025

The Connected Street Lights Market is transforming urban infrastructure with AI-powered automated traffic-responsive lighting, automation-enhanced real-time energy-efficient LED systems, and machine learning-driven predictive smart city lighting analytics. Companies such as Signify (Philips Lighting), Acuity Brands, GE Current, and Echelon Corporation are pioneering AI-enhanced automated adaptive lighting control, blockchain-backed secure smart city infrastructure integration, and IoT-integrated real-time urban illumination monitoring. The adoption of automation-powered AI-driven pedestrian safety lighting, AI-enhanced cloud-native real-time smart grid connectivity, and AI-driven real-time streetlight outage detection is driving municipal investments. However, challenges in AI-powered compliance with city infrastructure regulations, cybersecurity risks in automation-enhanced smart lighting networks, and technical limitations in AI-driven real-time light intensity adjustments persist. Additionally, DOE policies on AI-powered smart city development, evolving trends in 5G-enabled street lighting, and corporate investment in AI-driven sustainable urban lighting are shaping market expansion.

Five Trends that will define global Connected Street Lights market in 2025 and Beyond

A closer look at the multi-million market for Connected Street Lights identifies rapidly shifting consumer preferences across categories. By focusing on growth and resilience, leading Connected Street Lights companies are prioritizing their investments across categories, markets, and geographies. The report analyses the most important market trends shaping the new landscape to support better decisions for the long and short-term future. The impact of tariffs by the US administration also significantly impact the profitability of Connected Street Lights vendors.

What are the biggest opportunities for growth in the Connected Street Lights industry?

The Connected Street Lights sector demonstrated remarkable resilience over the past year across developed and developing economies. Further, the market presents significant opportunities to leverage the existing momentum towards actions by 2032. On the other hand, recent macroeconomic developments including rising inflation and supply chain disruptions are putting pressure on companies. The chapter assists users to identify growth avenues and address business challenges to make informed commercial decisions with unique insights, data forecasts, and in-depth market analyses.

Connected Street Lights Market Segment Insights

The Connected Street Lights industry presents strong offers across categories. The analytical report offers forecasts of Connected Street Lights industry performance across segments and countries. Key segments in the industry include%li%By Application (Video Surveillance, Environmental Monitoring, Traffic Monitoring, Weather and Pollution Monitoring, Others), By Component (System, Software), By Technology (Image Sensors, Seismic Sensors, Sound Sensors, Others), By Connectivity (Wired, Wireless). The largest types, applications, and sales channels, fastest growing segments, and the key factors driving each of the categories are included in the report.

Forecasts of each segment across five regions are provided from 2021 through 2032 for Asia Pacific, North America, Europe, South America, Middle East, and African regions. In addition, Connected Street Lights market size outlook is provided for 22 countries across these regions.

Market Value Chain

The chapter identifies potential companies and their operations across the global Connected Street Lights industry ecosystem. It assists decision-makers in evaluating global Connected Street Lights market fundamentals, market dynamics, and disruptive trends across the value chain segments.

Scenario Analysis and Forecasts

Strategic decision-making in the Connected Street Lights industry is multi-faceted with the increased need for planning across scenarios. The report provides forecasts across three case scenarios%li%low growth, reference case, and high growth cases.

Asia Pacific Connected Street Lights Market Analysis%li%A Promising Growth Arena for Business Expansion

As companies increasingly expand across promising Asia Pacific markets with over 4.5 billion population, the medium-to-long-term future remains robust. The presence of the fastest-growing economies such as China, India, Thailand, Indonesia, and Vietnam coupled with strengthening middle-class populations and rising disposable incomes drive the market. In particular, China and India are witnessing rapid shifts in consumer purchasing behavior. China is recovering steadily with optimistic forecasts for 2025. Further, Japanese and South Korean markets remain stable with most companies focusing on new product launches and diversification of sales channels.

The State of Europe Connected Street Lights Industry 2025%li%Focus on Accelerating Competitiveness

As companies opt for an integrated agenda for competitiveness, the year 2025 presents optimistic scenarios for companies across the ecosystem. With signs of economic recovery across markets, companies are increasing their investments. Europe is one of the largest markets for Connected Street Lights with demand from both Western Europe and Eastern European regions increasing over the medium to long-term future. Increasing omnichannel shopping amidst robust consumer demand for value purchases shapes the market outlook. The report analyses the key Connected Street Lights market drivers and opportunities across Germany, France, the United Kingdom, Spain, Italy, Russia, and other Europe.

The US Connected Street Lights market Insights%li%Vendors are exploring new opportunities within the US Connected Street Lights industry.

Easing inflation coupled with strengthening consumer sentiment is encouraging aggressive actions from the US Connected Street Lights companies. Market players consistently focusing on innovation and pursuing new ways to create value are set to excel in 2025. In addition, the Canadian and Mexican markets offer lucrative growth pockets for manufacturers and vendors. Focus on private-brand offerings and promotions, diversified sales channels, expansion into niche segments, adoption of advanced technologies, and sustainability are widely observed across the North American Connected Street Lights market.

Latin American Connected Street Lights market outlook rebounds in line with economic growth.

Underlying demand remains higher among urban consumers with an optimistic economic outlook across Brazil, Argentina, Chile, and other South and Central American countries. Increased consumer spending has been reported in Q1 -2025 and the prospects remain strong for rest of 2025. Aggressive ecosystem moves to create new sources of income are widely observed across markets in the region. Marketing activities focused on customer insights, operations, and support functions are quickly gaining business growth in the region.

Middle East and Africa Connected Street Lights Markets%li%New Opportunities for Companies Harnessing Diversity

Rapid growth in burgeoning urban locations coupled with a young and fast-growing population base is attracting new investments in the Middle East and African Connected Street Lights markets. Designing expansion and marketing strategies to cater to the local consumer base supports the market prospects. In addition to Nigeria, Algeria, South Africa, and other markets, steady growth markets in Ethiopia, Rwanda, Ghana, Tanzania, the Democratic Republic of Congo, and others present significant prospects for companies. On the other hand, Middle Eastern Connected Street Lights markets including the UAE, Saudi Arabia, Qatar, and Oman continue to offer lucrative pockets of growth.

Competitive Landscape%li%How Connected Street Lights companies outcompete in 2025?

The ability to respond quickly to evolving consumer preferences and adapt businesses to niche consumer segments remains a key growth factor. The report identifies the leading companies in the industry and provides their revenue for 2024. The market shares of each company are also included in the report. Further, business profiles, SWOT analysis, and financial analysis of each company are provided in detail. Key companies analyzed in the report include Acuity Brands Lighting Inc, Cisco, Delta Electronics Inc, Eaton Corp, Echelon Corp, FLASHNET S.A., General Electric Company, Itron, Osram Licht AG, Schreder Group, Signify Holding, Trilliant Holdings Inc, Verizon, ZTE Corp.

Connected Street Lights Market Segmentation

By Application

Video Surveillance

Environmental Monitoring

Traffic Monitoring

Weather and Pollution Monitoring

Others

By Component

System

Software

By Technology

Image Sensors

Seismic Sensors

Sound Sensors

Others

By Connectivity

Wired

Wireless

Leading Companies

Acuity Brands Lighting Inc

Cisco

Delta Electronics Inc

Eaton Corp

Echelon Corp

FLASHNET S.A.

General Electric Company

Itron

Osram Licht AG

Schreder Group

Signify Holding

Trilliant Holdings Inc

Verizon

ZTE Corp

Reasons to Buy the report

Make informed decisions through long and short-term forecasts across 22 countries and segments.

Evaluate market fundamentals, dynamics, and disrupting trends set to shape 2025 and beyond.

Gain a clear understanding of the competitive landscape, with product portfolio and growth strategies.

Get an integrated understanding of the entire market ecosystem and companies.

Stay ahead of the competition through plans for growth in a changing environment for your geographic expansion.

Assess the impact of advanced technologies and identify growth opportunities based on actionable data and insights.

Get free Excel spreadsheet and PPT versions along with the report PDF.

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By Application

Video Surveillance

Environmental Monitoring

Traffic Monitoring

Weather and Pollution Monitoring

Others

By Component

System

Software

By Technology

Image Sensors

Seismic Sensors

Sound Sensors

Others

By Connectivity

Wired

Wireless

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Delta Electronics Inc
Eaton Corp
Echelon Corp
FLASHNET S.A.
General Electric Company
Itron
Osram Licht AG
Schreder Group
Signify Holding
Trilliant Holdings Inc
Verizon
ZTE Corp
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