



# The Global Smart Street Lighting Market

2nd Edition

*The Global Smart Street Lighting Market analyses the latest developments on this important smart cities application worldwide. This strategic research report from Berg Insight provides you with 80 pages of unique business intelligence including 5-year industry forecasts and expert commentary on which to base your business decisions.*



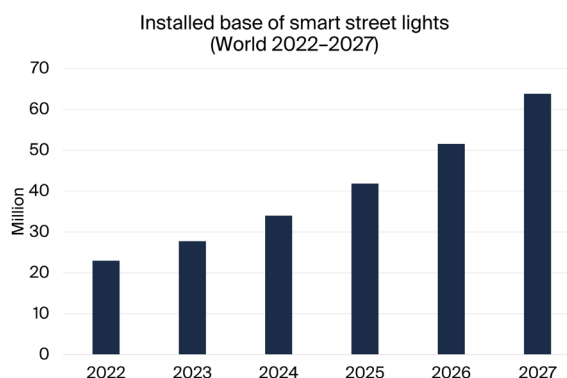
**Berg  
Insight™**

# The installed base of individually controlled street lights to reach 63.8 million in 2027

Electrified public street lighting infrastructure has been around since the late 19th century to improve vehicle and pedestrian safety as well as to provide increased comfort to all users of the street. Today, several hundred million street lights have been installed worldwide and the technology is now close to ubiquitous in all major urban areas of the developed world. The street lighting infrastructure however often constitute major cost centres in terms of energy consumption and maintenance work, and also account for a significant share of the total greenhouse gas emissions that a city generates. In addition, static lighting schemes contribute to unnecessary light pollution, which could have harmful impacts on both humans and environmental ecosystems. Along with the developments in IoT communications and energy-efficient LED technology, smart street lighting systems that enable remote monitoring, control and management of street lighting networks have emerged to address these issues and allow authorities and utilities to achieve significant cost and energy savings while at the same time improving the societal benefits provided to citizens. In recent years, smart street lighting infrastructure has moreover emerged as a promising platform for the management of a variety of additional smart city devices.

Berg Insight estimates that the global installed base of individually controlled smart street lights amounted to 23.0 million units at the end of 2022. Growing at a CAGR of 22.7 percent, the number will reach 63.8 million in 2027. Europe is the leading adopter and today accounts for around 35 percent

of the global installed base. North America is the second largest market and also constitutes the fastest growing market. A variety of proprietary RF networking platforms together account for 60 percent of the individually controlled street lights while cellular and PLC communications are the second and third most common connectivity technologies respectively. As of Q3-2023, the leading smart street lighting vendor was Signify with an installed base of nearly 4.9 million lighting controls, followed by US-based Itron and the Chinese vendor Fonda Technology. Itron also constitutes the global leader in the network segment.



## Highlights from the report

Insights from 20 interviews with market-leading companies.

360-degree overview of smart street lighting technology.

Profiles of 41 key players in the smart street lighting market.

Reviews of vendor market shares and competitive dynamics.

Market forecasts by region and technology lasting until 2027.

Detailed analysis of the latest market and industry developments.

# Table of contents

## Executive Summary

### 1 Introduction to Smart Street Lighting

- 1.1 The transition to LED and adaptive lighting
- 1.2 Smart street lighting
  - 1.2.1 Remote control and monitoring
  - 1.2.2 Preventive maintenance and real-time fault reporting
  - 1.2.3 Energy consumption metering and billing
  - 1.2.4 Smart street lighting as a city platform
- 1.3 Smart street lighting infrastructure
  - 1.3.1 Dimmable luminaires and lighting control units
  - 1.3.2 Network infrastructure
  - 1.3.3 Central management system

### 2 Company Profiles

- 2.1 Lighting control vendors
  - 2.1.1 Acuity Brands
  - 2.1.2 C2 SmartLight
  - 2.1.3 CITILIGHT
  - 2.1.4 CityLight
  - 2.1.5 Current Lighting
  - 2.1.6 Datek Light Control
  - 2.1.7 Dimonoff
  - 2.1.8 Flashnet (Lucy Group)
  - 2.1.9 Fonda Technology
  - 2.1.10 gridComm
  - 2.1.11 LACROIX
  - 2.1.12 LED Roadway Lighting
  - 2.1.13 Lucy Zodian (Lucy Group)
  - 2.1.14 MEAZON

- 2.1.15 MinebeaMitsumi & Paradox Engineering
- 2.1.16 Quantela
- 2.1.17 Revetec
- 2.1.18 Rongwen Energy Technology Group
- 2.1.19 Schröder
- 2.1.20 Sensus (Xylem)
- 2.1.21 Signify
- 2.1.22 Smartmation
- 2.1.23 SSE
- 2.1.24 ST Engineering Telematics Wireless
- 2.1.25 TVILIGHT
- 2.1.26 Ubicquia
- 2.1.27 Umpi
- 2.1.28 Urban Control (DW Windsor)
- 2.1.29 Wellness TechGroup
- 2.1.30 Domestic Chinese Vendors
- 2.2 Software and network platform specialists
  - 2.2.1 Cisco
  - 2.2.2 Citégestion (EDF)
  - 2.2.3 CityLinx
  - 2.2.4 Dhyam
  - 2.2.5 Itron
  - 2.2.6 Luminext
  - 2.2.7 TerraGo

### 3 Market Forecasts and Trends

- 3.1 Market forecasts
- 3.2 Industry analysis
- 3.3 Market trends
  - 3.3.1 The smart street lighting market has begun its consolidation journey
  - 3.3.2 Cellular technologies trending as a popular connectivity alternative

- 3.3.3 A new era of competition within smart street lighting
- 3.3.4 Growing adoption of D4i and Zhaga
- 3.3.5 Increasing demand for interoperability
- 3.3.6 Second-wave smart street lighting deployments are picking up pace
- 3.3.7 Weakening business case for smart pole solutions
- 3.3.8 Cabinet-control solutions continue to be in steady demand

## Glossary

## This report answers the following questions

- What are the main components of a smart street lighting solution?
- Which are the preferred communications technology options?
- How will the adoption of LPWA technologies such as LoRaWAN, NB-IoT and LTE-M evolve?
- What trends and developments affect the smart street lighting market?
- Which are the leading companies in the smart street lighting market?
- What is the outlook for smart street lighting vendors in the context of smart cities?
- How will the smart street lighting market evolve over the next five years?



## About Berg Insight’s IoT market research

Our market reports offer comprehensive information and analysis on key IoT technologies and markets, addressing important concerns including total addressable market, market penetration, market shares, industry landscape, regulatory environment, market trends and forecasts. Our research portfolio today comprises more than 65 items, where each market report focuses on a specific vertical application area or cover horizontal themes. All market reports come with complementary data sets in Excel format that can be easily analysed and converted into tables and charts. We offer a range of different license options together with bundled packages and subscriptions to suit your specific needs.



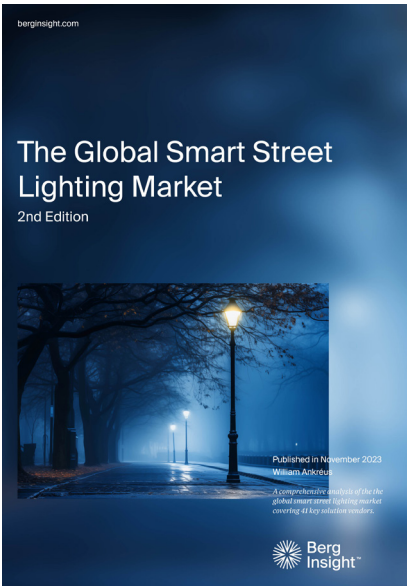
SMART CITIES

# The Global Smart Street Lighting Market

PUBLISHED DATE November 2023  
AUTHOR William Ankréus

PDF & EXCEL: 1 user license	€1 000
PDF & EXCEL: 2-10 user license	€1 500
PDF & EXCEL: Enterprise license	€2 000

Read more and place order on [berginsight.com](https://berginsight.com)



## Who should read this report?

The Global Smart Street Lighting Market is the foremost source of information about the adoption of smart and connected street lighting solutions. Whether you are a device vendor, service provider, telecom operator, utility, investor, consultant, or government agency, you will gain valuable insights from our in-depth research.

AUTHOR

William Ankréus

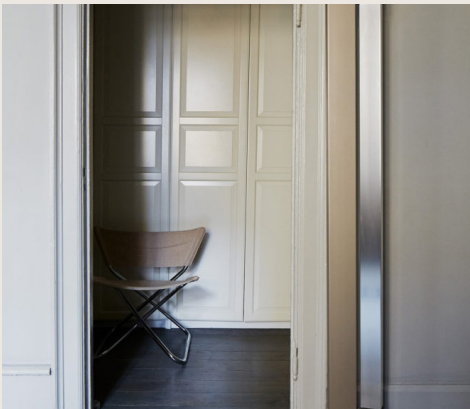


William is an IoT analyst covering mainly the automotive and commercial vehicle sectors. He performs strategic analysis of OEM and aftermarket car telematics services as well as commercial vehicle telematics and fleet management, among many other topics. William holds a Master's degree in Innovation and Industrial Management from the School of Business, Economics and Law at the University of Gothenburg and joined Berg Insight in 2023.

CONTACT

Berg Insight AB  
Viktoriagatan 3  
411 25 Gothenburg  
Sweden

+46 (0)31 711 30 91  
[info@berginsight.com](mailto:info@berginsight.com)  
[www.berginsight.com](https://www.berginsight.com)



*Berg Insight offers premier business intelligence to the telecom industry. We produce concise reports providing key facts and strategic insights about pivotal developments in our focus areas. Berg Insight also offers detailed market forecast databases and advisory services. Our vision is to be the most valuable source of intelligence for our customers.*