

China Outdoor LED Lighting - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The China Outdoor LED Lighting Market size is estimated at 0.96 billion USD in 2025, and is expected to reach 1.33 billion USD by 2030, growing at a CAGR of 6.77% during the forecast period (2025-2030).

The continued demand for road and airport expansion has increased the demand for LED lighting products.

- In 2023, streets and roadways accounted for the majority of the value share, followed by public places and other areas. China's total highway length as of 2021 was about 169,100 kilometers, which increased by 8,100 kilometers from the previous year. Over the past 13 years, China's highway length has increased by 1.6 times, from 65,055 kilometers in 2009. As of 2020, 13 provinces in China had over 200,000 kilometers of expressway networks, with Sichuan having the longest at more than 394,000 kilometers. The road network is expanding to promote the development of the logistics industry, with Jiangsu Province functioning as a distribution center. In 2020, Jiangsu Province had the highest number of drivers, with about 677 million drivers using the highways, surpassing Guangdong to become the busiest province in China.

- In 2023, streets and roadways accounted for the majority of the volume share, followed by public places and other areas. Companies like Philips, Toshiba, and Osram are launching projects to promote the use of LED lighting. Philips Lighting has joined the Guiyang Project, which is part of the 1000 Villages of Solar LED Lighting Program, an initiative of the Climate Group and One Foundation. The project aims to bring solar-powered LED street lighting to rural areas in China.

- The construction of a new airport was planned to progress steadily in China by 2022, with six new cargo airports and 29 new multi-purpose airports to open in mainland China. Therefore, the advancements in the market are expected to lead to increased demand for outdoor lighting products in the coming years.

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China Outdoor LED Lighting Market Trends

Rising sport events and government efforts to refurbish the country's sports stadium would lead to an increase in LED lighting

- The number of stadiums is expected to witness growth from 129 units in 2022 to 143 units in 2030, exhibiting a CAGR of 1.4%. The sports sector has undergone a number of changes in recent years. For example, Enfis Group plc was awarded a contract in 2010 to provide LED arrays and drivers for the NBA Stadium in Guangzhou, China. Currently, in 2022, Shanghai Stadium will have a surface size of 170,000 m², and it will have held important occasions like the 8th National Games, the 2007 Women's World Cup, and the 2008 Olympic Games. Shanghai Sansi provided an LED canopy with a display area of around 10,000 square meters for use in this refurbishment project. The installation and upgrading of LED lights will encourage their rise in the upcoming years.
- The nation supports the building of stadiums and provides investment opportunities for different sports. For instance, China has spent more than CNY 13.5 billion building sports facilities and upgrading its infrastructure and services to increase the country's participation in sports. By the end of 2020, there will be 89.7% more national sports venues than there were in 2017. For the 14th Five-Year Plan period (2021-25), the sports administration promises to open or renovate more than 1,000 sports facilities nationwide in order to increase the number of individuals who can engage in sporting events. Thus, it is anticipated that LED light sales will increase in the nation as a result of the building of new stadiums and an increase in athletic events.

A steady birth rate is complementing the positive growth of homeowners, small and medium-sized businesses, and electric vehicles

- In 2022, China had a total population of 1,411.75 million. In China, 6.77 children were born for every 1,000 adults in 2022. With the steady growth of the youth, around 141.05 million sq. m of commercial real estate was being built each year in China in 2021. The incubation of an additional 3,000 small giant enterprises in the year was supported by the Ministry of Industry and Information Technology in March 2022. By 2025, China wants to have 1,000 single-product champion enterprises and 10,000 tiny giant businesses. The demand to use more LEDs will be driven by the growth in businesses and enterprises.
- In China's lower socioeconomic strata, as of 2019, more than 60% of residents were homeowners. In comparison to citizens of big cities, the ownership rate was substantially greater. In lower-tier cities and towns, 41% of homeowners did not have a mortgage on their home. In 2019, the average household size in rural and urban areas was 48.9 sq. m and 39.8 sq. m, respectively. The increased use of LEDs may be influenced by the rise in home purchases.
- Owing to the growing population, China had 297 million cars as of September 2021. Motor vehicle registrations totaled 8.83 million in the third quarter of 2021. In 2021, more than 85% of all electric vehicle sales took place in China. In 2021, China sold 3.3 million more electric vehicles than the rest of the world (3.0 million). With 7.8 million vehicles, China's electric car fleet continued to be the largest in the world in 2021. The requirement for additional LEDs will be facilitated by the rise in the LED lighting market in China due to the rise in the number of EVs.

China Outdoor LED Lighting Industry Overview

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The China Outdoor LED Lighting Market is moderately consolidated, with the top five companies occupying 61.99%. The major players in this market are EGLO Leuchten GmbH, Guangdong PAK Corporation Co.,Ltd., OPPL Lighting Co., Ltd, Panasonic Holdings Corporation and Signify Holding (Philips) (sorted alphabetically).

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

1 EXECUTIVE SUMMARY & KEY FINDINGS

2 REPORT OFFERS

3 INTRODUCTION

3.1 Study Assumptions & Market Definition

3.2 Scope of the Study?

3.3 Research Methodology

4 KEY INDUSTRY TRENDS

4.1 Population

4.2 Per Capita Income

4.3 Total Import Of Leds

4.4 Lighting Electricity Consumption

4.5 # Of Households

4.6 Led Penetration

4.7 # Of Stadiums

4.8 Regulatory Framework

4.8.1 China

4.9 Value Chain & Distribution Channel Analysis

5 MARKET SEGMENTATION (includes market size in Value in USD and Volume, Forecasts up to 2030 and analysis of growth prospects)

5.1 Outdoor Lighting

5.1.1 Public Places

5.1.2 Streets and Roadways

5.1.3 Others

6 COMPETITIVE LANDSCAPE

6.1 Key Strategic Moves

6.2 Market Share Analysis

6.3 Company Landscape

6.4 Company Profiles (includes Global level Overview, Market level overview, Core Business Segments, Financials, Headcount, Key Information, Market Rank, Market Share, Products and Services, and analysis of Recent Developments)

6.4.1 ams-OSRAM AG

6.4.2 EGLO Leuchten GmbH

6.4.3 Guangdong PAK Corporation Co.,Ltd.

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- 6.4.4 Hangzhou Hpwinner Opto Corporation
- 6.4.5 NVC INTERNATIONAL HOLDINGS LIMITED
- 6.4.6 OPPLE Lighting Co., Ltd
- 6.4.7 Panasonic Holdings Corporation
- 6.4.8 Shenzhen Snc Opto Electronic Co., Ltd
- 6.4.9 Signify Holding (Philips)
- 6.4.10 Zhejiang Yankon Group Co.,Ltd

7 KEY STRATEGIC QUESTIONS FOR LED CEOS

8 APPENDIX

- 8.1 Global Overview
 - 8.1.1 Overview
 - 8.1.2 Porter's Five Forces Framework
 - 8.1.3 Global Value Chain Analysis
 - 8.1.4 Market Dynamics (DROs)
- 8.2 Sources & References
- 8.3 List of Tables & Figures
- 8.4 Primary Insights
- 8.5 Data Pack
- 8.6 Glossary of Terms

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