

Global LED Solar Powered Street Light Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global LED Solar Powered Street Light market size is expected to reach \$ 324 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2025, global sales of LED Solar Powered Street Light reached approximately 30 million units, with an average market price of about USD 8 per unit, an annual production capacity of roughly 35 million units, and an industry-average gross margin of approximately 20%.

A LED Solar Powered Street Light is a self-contained lighting unit integrating a solar panel, rechargeable battery, LED source, and control circuitry, operating off-grid by charging during the day and automatically illuminating at night. It is mainly used for gardens, walkways, parks, and landscape lighting, emphasizing easy installation and energy efficiency.

Upstream consists of solar cells/modules, lithium or NiMH batteries, LED chips, plastic housings, and die-cast aluminum parts; midstream covers product design, tooling, and assembly manufacturing; downstream demand mainly comes from DIY retail, e-commerce platforms, home improvement chains, and small landscaping projects, with residential garden use and seasonal replacement driving consumption.

The LED Solar Powered Street Light market is a consumer-driven, price-competitive segment within the broader outdoor and landscape lighting industry, characterized by low entry barriers and high product commoditization. Demand is primarily supported by residential DIY landscaping, home improvement retail, and e-commerce channels, with seasonal peaks in spring and summer. Growth is linked to increasing awareness of

energy efficiency, convenience of wire-free installation, and expanding outdoor living spaces, particularly in North America and Europe. However, the market faces challenges from short product lifecycles, intense OEM competition, rapid design imitation, and sensitivity to battery and LED component costs. Differentiation increasingly comes from durability, brightness performance, battery quality (lithium upgrades), smart features, and brand positioning rather than core technology innovation.

This report studies the global LED Solar Powered Street Light production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for LED Solar Powered Street Light and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of LED Solar Powered Street Light that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global LED Solar Powered Street Light total production and demand, 2021-2032, (K Units)

Global LED Solar Powered Street Light total production value, 2021-2032, (USD Million)

Global LED Solar Powered Street Light production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global LED Solar Powered Street Light consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: LED Solar Powered Street Light domestic production, consumption, key domestic manufacturers and share

Global LED Solar Powered Street Light production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global LED Solar Powered Street Light production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global LED Solar Powered Street Light production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global LED Solar Powered Street Light market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Philips, Gama Sonic, Westinghouse Lighting, Greenshine New Energy, Leadsun, Kon Lighting, Ningbo Sunle Lighting, Solar Electric Power (SEPCO), Jiawei, Allway Lighting, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World LED Solar Powered Street Light market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global LED Solar Powered Street Light Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global LED Solar Powered Street Light Market, Segmentation by Type:

Wall-mounted

Bollard

Others

Global LED Solar Powered Street Light Market, Segmentation by Brightness:

100 lm

Global LED Solar Powered Street Light Market, Segmentation by Battery:

NiMH Battery

Lithium-ion

LiFePO4

Global LED Solar Powered Street Light Market, Segmentation by Application:

Residential

Municipal Infrastructure

Others

Companies Profiled:

Philips

Gama Sonic

Westinghouse Lighting

Greenshine New Energy

Leadsun

Kon Lighting

Ningbo Sunle Lighting

Solar Electric Power (SEPCO)

Jiawei

Allway Lighting

Shenzhen Spark Optoelectronics S&T

Key Questions Answered:

1. How big is the global LED Solar Powered Street Light market?
2. What is the demand of the global LED Solar Powered Street Light market?
3. What is the year over year growth of the global LED Solar Powered Street Light market?
4. What is the production and production value of the global LED Solar Powered Street Light market?
5. Who are the key producers in the global LED Solar Powered Street Light market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 LED Solar Powered Street Light Introduction
- 1.2 World LED Solar Powered Street Light Supply & Forecast
 - 1.2.1 World LED Solar Powered Street Light Production Value (2021 & 2025 & 2032)
 - 1.2.2 World LED Solar Powered Street Light Production (2021-2032)
 - 1.2.3 World LED Solar Powered Street Light Pricing Trends (2021-2032)
- 1.3 World LED Solar Powered Street Light Production by Region (Based on Production Site)
 - 1.3.1 World LED Solar Powered Street Light Production Value by Region (2021-2032)
 - 1.3.2 World LED Solar Powered Street Light Production by Region (2021-2032)
 - 1.3.3 World LED Solar Powered Street Light Average Price by Region (2021-2032)
 - 1.3.4 North America LED Solar Powered Street Light Production (2021-2032)
 - 1.3.5 Europe LED Solar Powered Street Light Production (2021-2032)
 - 1.3.6 China LED Solar Powered Street Light Production (2021-2032)
 - 1.3.7 Japan LED Solar Powered Street Light Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 LED Solar Powered Street Light Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 LED Solar Powered Street Light Major Market Trends

2 DEMAND SUMMARY

- 2.1 World LED Solar Powered Street Light Demand (2021-2032)
- 2.2 World LED Solar Powered Street Light Consumption by Region
 - 2.2.1 World LED Solar Powered Street Light Consumption by Region (2021-2026)
 - 2.2.2 World LED Solar Powered Street Light Consumption Forecast by Region (2027-2032)
- 2.3 United States LED Solar Powered Street Light Consumption (2021-2032)
- 2.4 China LED Solar Powered Street Light Consumption (2021-2032)
- 2.5 Europe LED Solar Powered Street Light Consumption (2021-2032)
- 2.6 Japan LED Solar Powered Street Light Consumption (2021-2032)
- 2.7 South Korea LED Solar Powered Street Light Consumption (2021-2032)
- 2.8 ASEAN LED Solar Powered Street Light Consumption (2021-2032)
- 2.9 India LED Solar Powered Street Light Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World LED Solar Powered Street Light Production Value by Manufacturer (2021-2026)
- 3.2 World LED Solar Powered Street Light Production by Manufacturer (2021-2026)
- 3.3 World LED Solar Powered Street Light Average Price by Manufacturer (2021-2026)
- 3.4 LED Solar Powered Street Light Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global LED Solar Powered Street Light Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for LED Solar Powered Street Light in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for LED Solar Powered Street Light in 2025
- 3.6 LED Solar Powered Street Light Market: Overall Company Footprint Analysis
 - 3.6.1 LED Solar Powered Street Light Market: Region Footprint
 - 3.6.2 LED Solar Powered Street Light Market: Company Product Type Footprint
 - 3.6.3 LED Solar Powered Street Light Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: LED Solar Powered Street Light Production Value Comparison
 - 4.1.1 United States VS China: LED Solar Powered Street Light Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: LED Solar Powered Street Light Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: LED Solar Powered Street Light Production Comparison
 - 4.2.1 United States VS China: LED Solar Powered Street Light Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: LED Solar Powered Street Light Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: LED Solar Powered Street Light Consumption Comparison
 - 4.3.1 United States VS China: LED Solar Powered Street Light Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: LED Solar Powered Street Light Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based LED Solar Powered Street Light Manufacturers and Market Share, 2021-2026

4.4.1 United States Based LED Solar Powered Street Light Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers LED Solar Powered Street Light Production Value (2021-2026)

4.4.3 United States Based Manufacturers LED Solar Powered Street Light Production (2021-2026)

4.5 China Based LED Solar Powered Street Light Manufacturers and Market Share

4.5.1 China Based LED Solar Powered Street Light Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers LED Solar Powered Street Light Production Value (2021-2026)

4.5.3 China Based Manufacturers LED Solar Powered Street Light Production (2021-2026)

4.6 Rest of World Based LED Solar Powered Street Light Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based LED Solar Powered Street Light Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers LED Solar Powered Street Light Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers LED Solar Powered Street Light Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World LED Solar Powered Street Light Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Wall-mounted

5.2.2 Bollard

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World LED Solar Powered Street Light Production by Type (2021-2032)

5.3.2 World LED Solar Powered Street Light Production Value by Type (2021-2032)

5.3.3 World LED Solar Powered Street Light Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY BRIGHTNESS

6.1 World LED Solar Powered Street Light Market Size Overview by Brightness: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Brightness

6.2.1 100 lm

6.3 Market Segment by Brightness

6.3.1 World LED Solar Powered Street Light Production by Brightness (2021-2032)

6.3.2 World LED Solar Powered Street Light Production Value by Brightness (2021-2032)

6.3.3 World LED Solar Powered Street Light Average Price by Brightness (2021-2032)

7 MARKET ANALYSIS BY BATTERY

7.1 World LED Solar Powered Street Light Market Size Overview by Battery: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Battery

7.2.1 NiMH Battery

7.2.2 Lithium-ion

7.2.3 LiFePO4

7.3 Market Segment by Battery

7.3.1 World LED Solar Powered Street Light Production by Battery (2021-2032)

7.3.2 World LED Solar Powered Street Light Production Value by Battery (2021-2032)

7.3.3 World LED Solar Powered Street Light Average Price by Battery (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World LED Solar Powered Street Light Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Residential

8.2.2 Municipal Infrastructure

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World LED Solar Powered Street Light Production by Application (2021-2032)

8.3.2 World LED Solar Powered Street Light Production Value by Application (2021-2032)

8.3.3 World LED Solar Powered Street Light Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Philips

9.1.1 Philips Details

9.1.2 Philips Major Business

9.1.3 Philips LED Solar Powered Street Light Product and Services

9.1.4 Philips LED Solar Powered Street Light Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Philips Recent Developments/Updates

9.1.6 Philips Competitive Strengths & Weaknesses

9.2 Gama Sonic

9.2.1 Gama Sonic Details

9.2.2 Gama Sonic Major Business

9.2.3 Gama Sonic LED Solar Powered Street Light Product and Services

9.2.4 Gama Sonic LED Solar Powered Street Light Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Gama Sonic Recent Developments/Updates

9.2.6 Gama Sonic Competitive Strengths & Weaknesses

9.3 Westinghouse Lighting

9.3.1 Westinghouse Lighting Details

9.3.2 Westinghouse Lighting Major Business

9.3.3 Westinghouse Lighting LED Solar Powered Street Light Product and Services

9.3.4 Westinghouse Lighting LED Solar Powered Street Light Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Westinghouse Lighting Recent Developments/Updates

9.3.6 Westinghouse Lighting Competitive Strengths & Weaknesses

9.4 Greenshine New Energy

9.4.1 Greenshine New Energy Details

9.4.2 Greenshine New Energy Major Business

9.4.3 Greenshine New Energy LED Solar Powered Street Light Product and Services

9.4.4 Greenshine New Energy LED Solar Powered Street Light Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Greenshine New Energy Recent Developments/Updates

9.4.6 Greenshine New Energy Competitive Strengths & Weaknesses

9.5 Leadsun

9.5.1 Leadsun Details

9.5.2 Leadsun Major Business

9.5.3 Leadsun LED Solar Powered Street Light Product and Services

9.5.4 Leadsun LED Solar Powered Street Light Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Leadsun Recent Developments/Updates

- 9.5.6 Leadsun Competitive Strengths & Weaknesses
- 9.6 Kon Lighting
 - 9.6.1 Kon Lighting Details
 - 9.6.2 Kon Lighting Major Business
 - 9.6.3 Kon Lighting LED Solar Powered Street Light Product and Services
 - 9.6.4 Kon Lighting LED Solar Powered Street Light Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Kon Lighting Recent Developments/Updates
 - 9.6.6 Kon Lighting Competitive Strengths & Weaknesses
- 9.7 Ningbo Sunle Lighting
 - 9.7.1 Ningbo Sunle Lighting Details
 - 9.7.2 Ningbo Sunle Lighting Major Business
 - 9.7.3 Ningbo Sunle Lighting LED Solar Powered Street Light Product and Services
 - 9.7.4 Ningbo Sunle Lighting LED Solar Powered Street Light Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Ningbo Sunle Lighting Recent Developments/Updates
 - 9.7.6 Ningbo Sunle Lighting Competitive Strengths & Weaknesses
- 9.8 Solar Electric Power (SEPCO)
 - 9.8.1 Solar Electric Power (SEPCO) Details
 - 9.8.2 Solar Electric Power (SEPCO) Major Business
 - 9.8.3 Solar Electric Power (SEPCO) LED Solar Powered Street Light Product and Services
 - 9.8.4 Solar Electric Power (SEPCO) LED Solar Powered Street Light Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Solar Electric Power (SEPCO) Recent Developments/Updates
 - 9.8.6 Solar Electric Power (SEPCO) Competitive Strengths & Weaknesses
- 9.9 Jiawei
 - 9.9.1 Jiawei Details
 - 9.9.2 Jiawei Major Business
 - 9.9.3 Jiawei LED Solar Powered Street Light Product and Services
 - 9.9.4 Jiawei LED Solar Powered Street Light Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Jiawei Recent Developments/Updates
 - 9.9.6 Jiawei Competitive Strengths & Weaknesses
- 9.10 Allway Lighting
 - 9.10.1 Allway Lighting Details
 - 9.10.2 Allway Lighting Major Business
 - 9.10.3 Allway Lighting LED Solar Powered Street Light Product and Services
 - 9.10.4 Allway Lighting LED Solar Powered Street Light Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.10.5 Allway Lighting Recent Developments/Updates

9.10.6 Allway Lighting Competitive Strengths & Weaknesses

9.11 Shenzhen Spark Optoelectronics S&T

9.11.1 Shenzhen Spark Optoelectronics S&T Details

9.11.2 Shenzhen Spark Optoelectronics S&T Major Business

9.11.3 Shenzhen Spark Optoelectronics S&T LED Solar Powered Street Light Product and Services

9.11.4 Shenzhen Spark Optoelectronics S&T LED Solar Powered Street Light Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Shenzhen Spark Optoelectronics S&T Recent Developments/Updates

9.11.6 Shenzhen Spark Optoelectronics S&T Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 LED Solar Powered Street Light Industry Chain

10.2 LED Solar Powered Street Light Upstream Analysis

10.2.1 LED Solar Powered Street Light Core Raw Materials

10.2.2 Main Manufacturers of LED Solar Powered Street Light Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 LED Solar Powered Street Light Production Mode

10.6 LED Solar Powered Street Light Procurement Model

10.7 LED Solar Powered Street Light Industry Sales Model and Sales Channels

10.7.1 LED Solar Powered Street Light Sales Model

10.7.2 LED Solar Powered Street Light Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World LED Solar Powered Street Light Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World LED Solar Powered Street Light Production Value by Region (2021-2026) & (USD Million)

Table 3. World LED Solar Powered Street Light Production Value by Region (2027-2032) & (USD Million)

Table 4. World LED Solar Powered Street Light Production Value Market Share by Region (2021-2026)

Table 5. World LED Solar Powered Street Light Production Value Market Share by Region (2027-2032)

Table 6. World LED Solar Powered Street Light Production by Region (2021-2026) & (K Units)

Table 7. World LED Solar Powered Street Light Production by Region (2027-2032) & (K Units)

Table 8. World LED Solar Powered Street Light Production Market Share by Region (2021-2026)

Table 9. World LED Solar Powered Street Light Production Market Share by Region (2027-2032)

Table 10. World LED Solar Powered Street Light Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World LED Solar Powered Street Light Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. LED Solar Powered Street Light Major Market Trends

Table 13. World LED Solar Powered Street Light Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World LED Solar Powered Street Light Consumption by Region (2021-2026) & (K Units)

Table 15. World LED Solar Powered Street Light Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World LED Solar Powered Street Light Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key LED Solar Powered Street Light Producers in 2025

Table 18. World LED Solar Powered Street Light Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key LED Solar Powered Street Light Producers in 2025

Table 20. World LED Solar Powered Street Light Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global LED Solar Powered Street Light Company Evaluation Quadrant

Table 22. World LED Solar Powered Street Light Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and LED Solar Powered Street Light Production Site of Key Manufacturer

Table 24. LED Solar Powered Street Light Market: Company Product Type Footprint

Table 25. LED Solar Powered Street Light Market: Company Product Application Footprint

Table 26. LED Solar Powered Street Light Competitive Factors

Table 27. LED Solar Powered Street Light New Entrant and Capacity Expansion Plans

Table 28. LED Solar Powered Street Light Mergers & Acquisitions Activity

Table 29. United States VS China LED Solar Powered Street Light Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China LED Solar Powered Street Light Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China LED Solar Powered Street Light Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based LED Solar Powered Street Light Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers LED Solar Powered Street Light Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers LED Solar Powered Street Light Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers LED Solar Powered Street Light Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers LED Solar Powered Street Light Production Market Share (2021-2026)

Table 37. China Based LED Solar Powered Street Light Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers LED Solar Powered Street Light Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers LED Solar Powered Street Light Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers LED Solar Powered Street Light Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers LED Solar Powered Street Light Production Market Share (2021-2026)

Table 42. Rest of World Based LED Solar Powered Street Light Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers LED Solar Powered Street Light Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers LED Solar Powered Street Light Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers LED Solar Powered Street Light Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers LED Solar Powered Street Light Production Market Share (2021-2026)

Table 47. World LED Solar Powered Street Light Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World LED Solar Powered Street Light Production by Type (2021-2026) & (K Units)

Table 49. World LED Solar Powered Street Light Production by Type (2027-2032) & (K Units)

Table 50. World LED Solar Powered Street Light Production Value by Type (2021-2026) & (USD Million)

Table 51. World LED Solar Powered Street Light Production Value by Type (2027-2032) & (USD Million)

Table 52. World LED Solar Powered Street Light Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World LED Solar Powered Street Light Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World LED Solar Powered Street Light Production Value by Brightness, (USD Million), 2021 & 2025 & 2032

Table 55. World LED Solar Powered Street Light Production by Brightness (2021-2026) & (K Units)

Table 56. World LED Solar Powered Street Light Production by Brightness (2027-2032) & (K Units)

Table 57. World LED Solar Powered Street Light Production Value by Brightness (2021-2026) & (USD Million)

Table 58. World LED Solar Powered Street Light Production Value by Brightness (2027-2032) & (USD Million)

Table 59. World LED Solar Powered Street Light Average Price by Brightness (2021-2026) & (US\$/Unit)

Table 60. World LED Solar Powered Street Light Average Price by Brightness

(2027-2032) & (US\$/Unit)

Table 61. World LED Solar Powered Street Light Production Value by Battery, (USD Million), 2021 & 2025 & 2032

Table 62. World LED Solar Powered Street Light Production by Battery (2021-2026) & (K Units)

Table 63. World LED Solar Powered Street Light Production by Battery (2027-2032) & (K Units)

Table 64. World LED Solar Powered Street Light Production Value by Battery (2021-2026) & (USD Million)

Table 65. World LED Solar Powered Street Light Production Value by Battery (2027-2032) & (USD Million)

Table 66. World LED Solar Powered Street Light Average Price by Battery (2021-2026) & (US\$/Unit)

Table 67. World LED Solar Powered Street Light Average Price by Battery (2027-2032) & (US\$/Unit)

Table 68. World LED Solar Powered Street Light Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World LED Solar Powered Street Light Production by Application (2021-2026) & (K Units)

Table 70. World LED Solar Powered Street Light Production by Application (2027-2032) & (K Units)

Table 71. World LED Solar Powered Street Light Production Value by Application (2021-2026) & (USD Million)

Table 72. World LED Solar Powered Street Light Production Value by Application (2027-2032) & (USD Million)

Table 73. World LED Solar Powered Street Light Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World LED Solar Powered Street Light Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Philips Basic Information, Manufacturing Base and Competitors

Table 76. Philips Major Business

Table 77. Philips LED Solar Powered Street Light Product and Services

Table 78. Philips LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Philips Recent Developments/Updates

Table 80. Philips Competitive Strengths & Weaknesses

Table 81. Gama Sonic Basic Information, Manufacturing Base and Competitors

Table 82. Gama Sonic Major Business

- Table 83. Gama Sonic LED Solar Powered Street Light Product and Services
- Table 84. Gama Sonic LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Gama Sonic Recent Developments/Updates
- Table 86. Gama Sonic Competitive Strengths & Weaknesses
- Table 87. Westinghouse Lighting Basic Information, Manufacturing Base and Competitors
- Table 88. Westinghouse Lighting Major Business
- Table 89. Westinghouse Lighting LED Solar Powered Street Light Product and Services
- Table 90. Westinghouse Lighting LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Westinghouse Lighting Recent Developments/Updates
- Table 92. Westinghouse Lighting Competitive Strengths & Weaknesses
- Table 93. Greenshine New Energy Basic Information, Manufacturing Base and Competitors
- Table 94. Greenshine New Energy Major Business
- Table 95. Greenshine New Energy LED Solar Powered Street Light Product and Services
- Table 96. Greenshine New Energy LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Greenshine New Energy Recent Developments/Updates
- Table 98. Greenshine New Energy Competitive Strengths & Weaknesses
- Table 99. Leadsun Basic Information, Manufacturing Base and Competitors
- Table 100. Leadsun Major Business
- Table 101. Leadsun LED Solar Powered Street Light Product and Services
- Table 102. Leadsun LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Leadsun Recent Developments/Updates
- Table 104. Leadsun Competitive Strengths & Weaknesses
- Table 105. Kon Lighting Basic Information, Manufacturing Base and Competitors
- Table 106. Kon Lighting Major Business
- Table 107. Kon Lighting LED Solar Powered Street Light Product and Services
- Table 108. Kon Lighting LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 109. Kon Lighting Recent Developments/Updates
- Table 110. Kon Lighting Competitive Strengths & Weaknesses
- Table 111. Ningbo Sunle Lighting Basic Information, Manufacturing Base and Competitors
- Table 112. Ningbo Sunle Lighting Major Business
- Table 113. Ningbo Sunle Lighting LED Solar Powered Street Light Product and Services
- Table 114. Ningbo Sunle Lighting LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Ningbo Sunle Lighting Recent Developments/Updates
- Table 116. Ningbo Sunle Lighting Competitive Strengths & Weaknesses
- Table 117. Solar Electric Power (SEPCO) Basic Information, Manufacturing Base and Competitors
- Table 118. Solar Electric Power (SEPCO) Major Business
- Table 119. Solar Electric Power (SEPCO) LED Solar Powered Street Light Product and Services
- Table 120. Solar Electric Power (SEPCO) LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Solar Electric Power (SEPCO) Recent Developments/Updates
- Table 122. Solar Electric Power (SEPCO) Competitive Strengths & Weaknesses
- Table 123. Jiawei Basic Information, Manufacturing Base and Competitors
- Table 124. Jiawei Major Business
- Table 125. Jiawei LED Solar Powered Street Light Product and Services
- Table 126. Jiawei LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Jiawei Recent Developments/Updates
- Table 128. Jiawei Competitive Strengths & Weaknesses
- Table 129. Allway Lighting Basic Information, Manufacturing Base and Competitors
- Table 130. Allway Lighting Major Business
- Table 131. Allway Lighting LED Solar Powered Street Light Product and Services
- Table 132. Allway Lighting LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Allway Lighting Recent Developments/Updates
- Table 134. Allway Lighting Competitive Strengths & Weaknesses
- Table 135. Shenzhen Spark Optoelectronics S&T Basic Information, Manufacturing

Base and Competitors

Table 136. Shenzhen Spark Optoelectronics S&T Major Business

Table 137. Shenzhen Spark Optoelectronics S&T LED Solar Powered Street Light Product and Services

Table 138. Shenzhen Spark Optoelectronics S&T LED Solar Powered Street Light Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shenzhen Spark Optoelectronics S&T Recent Developments/Updates

Table 140. Shenzhen Spark Optoelectronics S&T Competitive Strengths & Weaknesses

Table 141. Global Key Players of LED Solar Powered Street Light Upstream (Raw Materials)

Table 142. Global LED Solar Powered Street Light Typical Customers

Table 143. LED Solar Powered Street Light Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. LED Solar Powered Street Light Picture

Figure 2. World LED Solar Powered Street Light Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World LED Solar Powered Street Light Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World LED Solar Powered Street Light Production (2021-2032) & (K Units)

Figure 5. World LED Solar Powered Street Light Average Price (2021-2032) & (US\$/Unit)

Figure 6. World LED Solar Powered Street Light Production Value Market Share by Region (2021-2032)

Figure 7. World LED Solar Powered Street Light Production Market Share by Region (2021-2032)

Figure 8. North America LED Solar Powered Street Light Production (2021-2032) & (K Units)

Figure 9. Europe LED Solar Powered Street Light Production (2021-2032) & (K Units)

Figure 10. China LED Solar Powered Street Light Production (2021-2032) & (K Units)

Figure 11. Japan LED Solar Powered Street Light Production (2021-2032) & (K Units)

Figure 12. LED Solar Powered Street Light Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World LED Solar Powered Street Light Consumption (2021-2032) & (K Units)

Figure 15. World LED Solar Powered Street Light Consumption Market Share by Region (2021-2032)

Figure 16. United States LED Solar Powered Street Light Consumption (2021-2032) & (K Units)

Figure 17. China LED Solar Powered Street Light Consumption (2021-2032) & (K Units)

Figure 18. Europe LED Solar Powered Street Light Consumption (2021-2032) & (K Units)

Figure 19. Japan LED Solar Powered Street Light Consumption (2021-2032) & (K Units)

Figure 20. South Korea LED Solar Powered Street Light Consumption (2021-2032) & (K Units)

Figure 21. ASEAN LED Solar Powered Street Light Consumption (2021-2032) & (K Units)

Figure 22. India LED Solar Powered Street Light Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of LED Solar Powered Street Light by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for LED Solar Powered Street Light Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for LED Solar Powered Street Light Markets in 2025

Figure 26. United States VS China: LED Solar Powered Street Light Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: LED Solar Powered Street Light Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: LED Solar Powered Street Light Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers LED Solar Powered Street Light Production Market Share 2025

Figure 30. China Based Manufacturers LED Solar Powered Street Light Production Market Share 2025

Figure 31. Rest of World Based Manufacturers LED Solar Powered Street Light Production Market Share 2025

Figure 32. World LED Solar Powered Street Light Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World LED Solar Powered Street Light Production Value Market Share by Type in 2025

Figure 34. Wall-mounted

Figure 35. Bollard

Figure 36. Others

Figure 37. World LED Solar Powered Street Light Production Market Share by Type (2021-2032)

Figure 38. World LED Solar Powered Street Light Production Value Market Share by Type (2021-2032)

Figure 39. World LED Solar Powered Street Light Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World LED Solar Powered Street Light Production Value by Brightness, (USD Million), 2021 & 2025 & 2032

Figure 41. World LED Solar Powered Street Light Production Value Market Share by Brightness in 2025

Figure 42. 100 lm

Figure 45. World LED Solar Powered Street Light Production Market Share by Brightness (2021-2032)

Figure 46. World LED Solar Powered Street Light Production Value Market Share by Brightness (2021-2032)

Figure 47. World LED Solar Powered Street Light Average Price by Brightness

(2021-2032) & (US\$/Unit)

Figure 48. World LED Solar Powered Street Light Production Value by Battery, (USD Million), 2021 & 2025 & 2032

Figure 49. World LED Solar Powered Street Light Production Value Market Share by Battery in 2025

Figure 50. NiMH Battery

Figure 51. Lithium-ion

Figure 52. LiFePO₄

Figure 53. World LED Solar Powered Street Light Production Market Share by Battery (2021-2032)

Figure 54. World LED Solar Powered Street Light Production Value Market Share by Battery (2021-2032)

Figure 55. World LED Solar Powered Street Light Average Price by Battery (2021-2032) & (US\$/Unit)

Figure 56. World LED Solar Powered Street Light Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World LED Solar Powered Street Light Production Value Market Share by Application in 2025

Figure 58. Residential

Figure 59. Municipal Infrastructure

Figure 60. Others

Figure 61. World LED Solar Powered Street Light Production Market Share by Application (2021-2032)

Figure 62. World LED Solar Powered Street Light Production Value Market Share by Application (2021-2032)

Figure 63. World LED Solar Powered Street Light Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. LED Solar Powered Street Light Industry Chain

Figure 65. LED Solar Powered Street Light Procurement Model

Figure 66. LED Solar Powered Street Light Sales Model

Figure 67. LED Solar Powered Street Light Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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