

# Global Solar Powered LED Street Light Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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### Abstracts

According to our (Global Info Research) latest study, the global Solar Powered LED Street Light market size was valued at USD 1421 million in 2023 and is forecast to a readjusted size of USD 2863.3 million by 2030 with a CAGR of 10.5% during review period.

Solar LED street lights are systems that get their power from the sun and make electricity and light. The way solar LEDs work is that sunlight is turned into electricity, which lights the lamp directly and heats water for use in the home at night. In a solar street lighting system, photovoltaic panels are put on the top of the lamp post to store energy from the sun. When fossil fuels are used, the chance of climate change goes up. This means that we need to switch to green energy. Solar street lights cut down on how much we rely on traditional energy sources, help cut down on carbon emissions, and help us reach our green energy goals. Solar street lights are used on many streets, roads, courtyards, parks, airports, and other places.

China has implemented the Renewable Energy Law since 2006, in which Article 4 clearly states that, the State gives first priority to the exploration of renewable energy. Over the years, various departments of the Chinese government have successively issued a large number of policies, covering production, sales, taxation, subsidies and other aspects. After setting the carbon neutrality goal in 2021, from a national perspective, the upgrading of the energy structure is ever imperative, and therefore the optoelectronic industry has great potential. The European Commission released the Net-Zero Industry Act in 2023. This bill aims to stimulate local manufacturing in Europe, reduce import dependence on China, and ensure that at least 40% of the EU's clean



energy demand can be met by 2030. The EU targets an installed solar capacity of 600 GW. Overall, the European market still has a lot of room for development. US 2022 release of the Inflation Reduction Act, which includes \$369 billion for energy security and climate change investments. For the photovoltaic industry, the bill stimulates its development from multiple aspects such as corporate and individual tax credits, production subsidies, and loans throughout the industry chain, and revitalizes the domestic manufacturing industry in the United States. Japanese authorities plan to make solar panels mandatory for new residential buildings in Tokyo from 2025 onwards. It is estimated that by 2030, photovoltaic power generation will account for 14%-16% of Japan's total power generation, and the cumulative installed capacity of photovoltaic systems will be about 117.237 GW.

The Global Info Research report includes an overview of the development of the Solar Powered LED Street Light industry chain, the market status of City Road (30W-49W, 50W-69W), Sidewalk (30W-49W, 50W-69W), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Solar Powered LED Street Light.

Regionally, the report analyzes the Solar Powered LED Street Light markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Solar Powered LED Street Light market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Solar Powered LED Street Light market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Solar Powered LED Street Light industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., 30W-49W, 50W-69W).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and



market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Solar Powered LED Street Light market.

Regional Analysis: The report involves examining the Solar Powered LED Street Light market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Solar Powered LED Street Light market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Solar Powered LED Street Light:

Company Analysis: Report covers individual Solar Powered LED Street Light manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Solar Powered LED Street Light This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (City Road, Sidewalk).

Technology Analysis: Report covers specific technologies relevant to Solar Powered LED Street Light. It assesses the current state, advancements, and potential future developments in Solar Powered LED Street Light areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Solar Powered LED Street Light market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation



Solar Powered LED Street Light market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

30W-49W

50W-69W

70W-89W

90W-100W

>100W

Market segment by Application

City Road

Sidewalk

Square

School

Park

Residential

Factory

Others

Major players covered



#### Philips

Tata Power Solar Systems

Bisol

Leadsun

Su-Kam Power Systems

Urja Global

Solar Electric Power Company (SEPCO)

Jiawei

Yingli Solar

King-sun

BYD

Shenzhen Spark Optoelectronics S&T

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)



The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Solar Powered LED Street Light product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solar Powered LED Street Light, with price, sales, revenue and global market share of Solar Powered LED Street Light from 2019 to 2024.

Chapter 3, the Solar Powered LED Street Light competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solar Powered LED Street Light breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023.and Solar Powered LED Street Light market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solar Powered LED Street Light.

Chapter 14 and 15, to describe Solar Powered LED Street Light sales channel, distributors, customers, research findings and conclusion.



## Contents

#### **1 MARKET OVERVIEW**

1.1 Product Overview and Scope of Solar Powered LED Street Light

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Solar Powered LED Street Light Consumption Value by Type: 2019 Versus 2023 Versus 2030

- 1.3.2 30W-49W
- 1.3.3 50W-69W
- 1.3.4 70W-89W
- 1.3.5 90W-100W
- 1.3.6 >100W
- 1.4 Market Analysis by Application

1.4.1 Overview: Global Solar Powered LED Street Light Consumption Value by Application: 2019 Versus 2023 Versus 2030

- 1.4.2 City Road
- 1.4.3 Sidewalk
- 1.4.4 Square
- 1.4.5 School
- 1.4.6 Park
- 1.4.7 Residential
- 1.4.8 Factory
- 1.4.9 Others

1.5 Global Solar Powered LED Street Light Market Size & Forecast

1.5.1 Global Solar Powered LED Street Light Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Solar Powered LED Street Light Sales Quantity (2019-2030)

1.5.3 Global Solar Powered LED Street Light Average Price (2019-2030)

#### **2 MANUFACTURERS PROFILES**

- 2.1 Philips
  - 2.1.1 Philips Details
  - 2.1.2 Philips Major Business
  - 2.1.3 Philips Solar Powered LED Street Light Product and Services

2.1.4 Philips Solar Powered LED Street Light Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)



- 2.1.5 Philips Recent Developments/Updates
- 2.2 Tata Power Solar Systems
  - 2.2.1 Tata Power Solar Systems Details
  - 2.2.2 Tata Power Solar Systems Major Business
- 2.2.3 Tata Power Solar Systems Solar Powered LED Street Light Product and Services

2.2.4 Tata Power Solar Systems Solar Powered LED Street Light Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Tata Power Solar Systems Recent Developments/Updates

2.3 Bisol

- 2.3.1 Bisol Details
- 2.3.2 Bisol Major Business
- 2.3.3 Bisol Solar Powered LED Street Light Product and Services
- 2.3.4 Bisol Solar Powered LED Street Light Sales Quantity, Average Price, Revenue,
- Gross Margin and Market Share (2019-2024)
  - 2.3.5 Bisol Recent Developments/Updates

2.4 Leadsun

- 2.4.1 Leadsun Details
- 2.4.2 Leadsun Major Business
- 2.4.3 Leadsun Solar Powered LED Street Light Product and Services
- 2.4.4 Leadsun Solar Powered LED Street Light Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Leadsun Recent Developments/Updates

2.5 Su-Kam Power Systems

- 2.5.1 Su-Kam Power Systems Details
- 2.5.2 Su-Kam Power Systems Major Business
- 2.5.3 Su-Kam Power Systems Solar Powered LED Street Light Product and Services
- 2.5.4 Su-Kam Power Systems Solar Powered LED Street Light Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 Su-Kam Power Systems Recent Developments/Updates

2.6 Urja Global

- 2.6.1 Urja Global Details
- 2.6.2 Urja Global Major Business
- 2.6.3 Urja Global Solar Powered LED Street Light Product and Services
- 2.6.4 Urja Global Solar Powered LED Street Light Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

- 2.6.5 Urja Global Recent Developments/Updates
- 2.7 Solar Electric Power Company (SEPCO)
  - 2.7.1 Solar Electric Power Company (SEPCO) Details



2.7.2 Solar Electric Power Company (SEPCO) Major Business

2.7.3 Solar Electric Power Company (SEPCO) Solar Powered LED Street Light Product and Services

2.7.4 Solar Electric Power Company (SEPCO) Solar Powered LED Street Light Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 Solar Electric Power Company (SEPCO) Recent Developments/Updates 2.8 Jiawei

2.8.1 Jiawei Details

2.8.2 Jiawei Major Business

2.8.3 Jiawei Solar Powered LED Street Light Product and Services

2.8.4 Jiawei Solar Powered LED Street Light Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2019-2024)

2.8.5 Jiawei Recent Developments/Updates

2.9 Yingli Solar

- 2.9.1 Yingli Solar Details
- 2.9.2 Yingli Solar Major Business
- 2.9.3 Yingli Solar Solar Powered LED Street Light Product and Services
- 2.9.4 Yingli Solar Solar Powered LED Street Light Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 Yingli Solar Recent Developments/Updates

2.10 King-sun

2.10.1 King-sun Details

- 2.10.2 King-sun Major Business
- 2.10.3 King-sun Solar Powered LED Street Light Product and Services
- 2.10.4 King-sun Solar Powered LED Street Light Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 King-sun Recent Developments/Updates

2.11 BYD

2.11.1 BYD Details

2.11.2 BYD Major Business

2.11.3 BYD Solar Powered LED Street Light Product and Services

2.11.4 BYD Solar Powered LED Street Light Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2019-2024)

2.11.5 BYD Recent Developments/Updates

2.12 Shenzhen Spark Optoelectronics S&T

2.12.1 Shenzhen Spark Optoelectronics S&T Details

2.12.2 Shenzhen Spark Optoelectronics S&T Major Business

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



2.12.4 Shenzhen Spark Optoelectronics S&T Solar Powered LED Street Light SalesQuantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)2.12.5 Shenzhen Spark Optoelectronics S&T Recent Developments/Updates

#### 3 COMPETITIVE ENVIRONMENT: SOLAR POWERED LED STREET LIGHT BY MANUFACTURER

3.1 Global Solar Powered LED Street Light Sales Quantity by Manufacturer (2019-2024)

3.2 Global Solar Powered LED Street Light Revenue by Manufacturer (2019-2024)

3.3 Global Solar Powered LED Street Light Average Price by Manufacturer (2019-2024)3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Solar Powered LED Street Light by Manufacturer Revenue (\$MM) and Market Share (%): 2023

- 3.4.2 Top 3 Solar Powered LED Street Light Manufacturer Market Share in 2023
  3.4.2 Top 6 Solar Powered LED Street Light Manufacturer Market Share in 2023
  3.5 Solar Powered LED Street Light Market: Overall Company Footprint Analysis
- 3.5.1 Solar Powered LED Street Light Market: Region Footprint
- 3.5.2 Solar Powered LED Street Light Market: Company Product Type Footprint
- 3.5.3 Solar Powered LED Street Light Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

4.1 Global Solar Powered LED Street Light Market Size by Region

4.1.1 Global Solar Powered LED Street Light Sales Quantity by Region (2019-2030)

4.1.2 Global Solar Powered LED Street Light Consumption Value by Region (2019-2030)

4.1.3 Global Solar Powered LED Street Light Average Price by Region (2019-2030)

4.2 North America Solar Powered LED Street Light Consumption Value (2019-2030)

4.3 Europe Solar Powered LED Street Light Consumption Value (2019-2030)

4.4 Asia-Pacific Solar Powered LED Street Light Consumption Value (2019-2030)

4.5 South America Solar Powered LED Street Light Consumption Value (2019-2030)

4.6 Middle East and Africa Solar Powered LED Street Light Consumption Value (2019-2030)

#### **5 MARKET SEGMENT BY TYPE**



5.1 Global Solar Powered LED Street Light Sales Quantity by Type (2019-2030)

5.2 Global Solar Powered LED Street Light Consumption Value by Type (2019-2030)

5.3 Global Solar Powered LED Street Light Average Price by Type (2019-2030)

#### 6 MARKET SEGMENT BY APPLICATION

6.1 Global Solar Powered LED Street Light Sales Quantity by Application (2019-2030)6.2 Global Solar Powered LED Street Light Consumption Value by Application (2019-2030)

6.3 Global Solar Powered LED Street Light Average Price by Application (2019-2030)

#### 7 NORTH AMERICA

7.1 North America Solar Powered LED Street Light Sales Quantity by Type (2019-2030)7.2 North America Solar Powered LED Street Light Sales Quantity by Application (2019-2030)

7.3 North America Solar Powered LED Street Light Market Size by Country

7.3.1 North America Solar Powered LED Street Light Sales Quantity by Country (2019-2030)

7.3.2 North America Solar Powered LED Street Light Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

#### 8 EUROPE

8.1 Europe Solar Powered LED Street Light Sales Quantity by Type (2019-2030)

8.2 Europe Solar Powered LED Street Light Sales Quantity by Application (2019-2030)

- 8.3 Europe Solar Powered LED Street Light Market Size by Country
- 8.3.1 Europe Solar Powered LED Street Light Sales Quantity by Country (2019-2030)

8.3.2 Europe Solar Powered LED Street Light Consumption Value by Country (2019-2030)

- 8.3.3 Germany Market Size and Forecast (2019-2030)
- 8.3.4 France Market Size and Forecast (2019-2030)
- 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
- 8.3.6 Russia Market Size and Forecast (2019-2030)
- 8.3.7 Italy Market Size and Forecast (2019-2030)



#### 9 ASIA-PACIFIC

9.1 Asia-Pacific Solar Powered LED Street Light Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Solar Powered LED Street Light Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Solar Powered LED Street Light Market Size by Region

9.3.1 Asia-Pacific Solar Powered LED Street Light Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Solar Powered LED Street Light Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

#### **10 SOUTH AMERICA**

10.1 South America Solar Powered LED Street Light Sales Quantity by Type (2019-2030)

10.2 South America Solar Powered LED Street Light Sales Quantity by Application (2019-2030)

10.3 South America Solar Powered LED Street Light Market Size by Country

10.3.1 South America Solar Powered LED Street Light Sales Quantity by Country (2019-2030)

10.3.2 South America Solar Powered LED Street Light Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

#### 11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Solar Powered LED Street Light Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Solar Powered LED Street Light Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa Solar Powered LED Street Light Market Size by Country

11.3.1 Middle East & Africa Solar Powered LED Street Light Sales Quantity by Country



(2019-2030)

11.3.2 Middle East & Africa Solar Powered LED Street Light Consumption Value by Country (2019-2030)

- 11.3.3 Turkey Market Size and Forecast (2019-2030)
- 11.3.4 Egypt Market Size and Forecast (2019-2030)
- 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
- 11.3.6 South Africa Market Size and Forecast (2019-2030)

#### **12 MARKET DYNAMICS**

- 12.1 Solar Powered LED Street Light Market Drivers
- 12.2 Solar Powered LED Street Light Market Restraints
- 12.3 Solar Powered LED Street Light Trends Analysis
- 12.4 Porters Five Forces Analysis
- 12.4.1 Threat of New Entrants
- 12.4.2 Bargaining Power of Suppliers
- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry

#### 13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Solar Powered LED Street Light and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Solar Powered LED Street Light
- 13.3 Solar Powered LED Street Light Production Process
- 13.4 Solar Powered LED Street Light Industrial Chain

#### 14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
- 14.1.1 Direct to End-User
- 14.1.2 Distributors
- 14.2 Solar Powered LED Street Light Typical Distributors
- 14.3 Solar Powered LED Street Light Typical Customers

#### 15 RESEARCH FINDINGS AND CONCLUSION

#### **16 APPENDIX**



16.1 Methodology16.2 Research Process and Data Source16.3 Disclaimer



## **List Of Tables**

#### LIST OF TABLES

Table 1. Global Solar Powered LED Street Light Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Solar Powered LED Street Light Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Philips Basic Information, Manufacturing Base and Competitors

Table 4. Philips Major Business

Table 5. Philips Solar Powered LED Street Light Product and Services

Table 6. Philips Solar Powered LED Street Light Sales Quantity (K Units), Average

Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Philips Recent Developments/Updates

Table 8. Tata Power Solar Systems Basic Information, Manufacturing Base and Competitors

Table 9. Tata Power Solar Systems Major Business

Table 10. Tata Power Solar Systems Solar Powered LED Street Light Product and Services

Table 11. Tata Power Solar Systems Solar Powered LED Street Light Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Tata Power Solar Systems Recent Developments/Updates

Table 13. Bisol Basic Information, Manufacturing Base and Competitors

Table 14. Bisol Major Business

Table 15. Bisol Solar Powered LED Street Light Product and Services

Table 16. Bisol Solar Powered LED Street Light Sales Quantity (K Units), Average Price

(USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Bisol Recent Developments/Updates

Table 18. Leadsun Basic Information, Manufacturing Base and Competitors

Table 19. Leadsun Major Business

Table 20. Leadsun Solar Powered LED Street Light Product and Services

Table 21. Leadsun Solar Powered LED Street Light Sales Quantity (K Units), Average

Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Leadsun Recent Developments/Updates

Table 23. Su-Kam Power Systems Basic Information, Manufacturing Base and Competitors

 Table 24. Su-Kam Power Systems Major Business

Table 25. Su-Kam Power Systems Solar Powered LED Street Light Product and



Services

Table 26. Su-Kam Power Systems Solar Powered LED Street Light Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Su-Kam Power Systems Recent Developments/Updates

 Table 28. Urja Global Basic Information, Manufacturing Base and Competitors

Table 29. Urja Global Major Business

Table 30. Urja Global Solar Powered LED Street Light Product and Services

Table 31. Urja Global Solar Powered LED Street Light Sales Quantity (K Units),

Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Urja Global Recent Developments/Updates

Table 33. Solar Electric Power Company (SEPCO) Basic Information, Manufacturing Base and Competitors

Table 34. Solar Electric Power Company (SEPCO) Major Business

Table 35. Solar Electric Power Company (SEPCO) Solar Powered LED Street Light Product and Services

Table 36. Solar Electric Power Company (SEPCO) Solar Powered LED Street Light Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Solar Electric Power Company (SEPCO) Recent Developments/Updates

 Table 38. Jiawei Basic Information, Manufacturing Base and Competitors

Table 39. Jiawei Major Business

Table 40. Jiawei Solar Powered LED Street Light Product and Services

Table 41. Jiawei Solar Powered LED Street Light Sales Quantity (K Units), Average

Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Jiawei Recent Developments/Updates

Table 43. Yingli Solar Basic Information, Manufacturing Base and Competitors

Table 44. Yingli Solar Major Business

Table 45. Yingli Solar Solar Powered LED Street Light Product and Services

Table 46. Yingli Solar Solar Powered LED Street Light Sales Quantity (K Units),

Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. Yingli Solar Recent Developments/Updates

 Table 48. King-sun Basic Information, Manufacturing Base and Competitors

Table 49. King-sun Major Business

Table 50. King-sun Solar Powered LED Street Light Product and Services

Table 51. King-sun Solar Powered LED Street Light Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)



Table 52. King-sun Recent Developments/Updates Table 53. BYD Basic Information, Manufacturing Base and Competitors Table 54. BYD Major Business Table 55. BYD Solar Powered LED Street Light Product and Services Table 56. BYD Solar Powered LED Street Light Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024) Table 57. BYD Recent Developments/Updates Table 58. Shenzhen Spark Optoelectronics S&T Basic Information, Manufacturing Base and Competitors Table 59. Shenzhen Spark Optoelectronics S&T Major Business Table 60. Shenzhen Spark Optoelectronics S&T Solar Powered LED Street Light Product and Services Table 61. Shenzhen Spark Optoelectronics S&T Solar Powered LED Street Light Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024) Table 62. Shenzhen Spark Optoelectronics S&T Recent Developments/Updates Table 63. Global Solar Powered LED Street Light Sales Quantity by Manufacturer (2019-2024) & (K Units) Table 64. Global Solar Powered LED Street Light Revenue by Manufacturer (2019-2024) & (USD Million) Table 65. Global Solar Powered LED Street Light Average Price by Manufacturer (2019-2024) & (USD/Unit) Table 66. Market Position of Manufacturers in Solar Powered LED Street Light, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023 Table 67. Head Office and Solar Powered LED Street Light Production Site of Key Manufacturer Table 68. Solar Powered LED Street Light Market: Company Product Type Footprint Table 69. Solar Powered LED Street Light Market: Company Product Application Footprint Table 70. Solar Powered LED Street Light New Market Entrants and Barriers to Market Entry Table 71. Solar Powered LED Street Light Mergers, Acquisition, Agreements, and Collaborations Table 72. Global Solar Powered LED Street Light Sales Quantity by Region (2019-2024) & (K Units)

Table 73. Global Solar Powered LED Street Light Sales Quantity by Region(2025-2030) & (K Units)

Table 74. Global Solar Powered LED Street Light Consumption Value by Region (2019-2024) & (USD Million)



Table 75. Global Solar Powered LED Street Light Consumption Value by Region (2025-2030) & (USD Million)

Table 76. Global Solar Powered LED Street Light Average Price by Region (2019-2024) & (USD/Unit)

Table 77. Global Solar Powered LED Street Light Average Price by Region (2025-2030) & (USD/Unit)

Table 78. Global Solar Powered LED Street Light Sales Quantity by Type (2019-2024) & (K Units)

Table 79. Global Solar Powered LED Street Light Sales Quantity by Type (2025-2030) & (K Units)

Table 80. Global Solar Powered LED Street Light Consumption Value by Type (2019-2024) & (USD Million)

Table 81. Global Solar Powered LED Street Light Consumption Value by Type (2025-2030) & (USD Million)

Table 82. Global Solar Powered LED Street Light Average Price by Type (2019-2024) & (USD/Unit)

Table 83. Global Solar Powered LED Street Light Average Price by Type (2025-2030) & (USD/Unit)

Table 84. Global Solar Powered LED Street Light Sales Quantity by Application (2019-2024) & (K Units)

Table 85. Global Solar Powered LED Street Light Sales Quantity by Application (2025-2030) & (K Units)

Table 86. Global Solar Powered LED Street Light Consumption Value by Application (2019-2024) & (USD Million)

Table 87. Global Solar Powered LED Street Light Consumption Value by Application (2025-2030) & (USD Million)

Table 88. Global Solar Powered LED Street Light Average Price by Application(2019-2024) & (USD/Unit)

Table 89. Global Solar Powered LED Street Light Average Price by Application(2025-2030) & (USD/Unit)

Table 90. North America Solar Powered LED Street Light Sales Quantity by Type (2019-2024) & (K Units)

Table 91. North America Solar Powered LED Street Light Sales Quantity by Type (2025-2030) & (K Units)

Table 92. North America Solar Powered LED Street Light Sales Quantity by Application (2019-2024) & (K Units)

Table 93. North America Solar Powered LED Street Light Sales Quantity by Application (2025-2030) & (K Units)

Table 94. North America Solar Powered LED Street Light Sales Quantity by Country



(2019-2024) & (K Units) Table 95. North America Solar Powered LED Street Light Sales Quantity by Country (2025-2030) & (K Units) Table 96. North America Solar Powered LED Street Light Consumption Value by Country (2019-2024) & (USD Million) Table 97. North America Solar Powered LED Street Light Consumption Value by Country (2025-2030) & (USD Million) Table 98. Europe Solar Powered LED Street Light Sales Quantity by Type (2019-2024) & (K Units) Table 99. Europe Solar Powered LED Street Light Sales Quantity by Type (2025-2030) & (K Units) Table 100. Europe Solar Powered LED Street Light Sales Quantity by Application (2019-2024) & (K Units) Table 101. Europe Solar Powered LED Street Light Sales Quantity by Application (2025-2030) & (K Units) Table 102. Europe Solar Powered LED Street Light Sales Quantity by Country (2019-2024) & (K Units) Table 103. Europe Solar Powered LED Street Light Sales Quantity by Country (2025-2030) & (K Units) Table 104. Europe Solar Powered LED Street Light Consumption Value by Country (2019-2024) & (USD Million) Table 105. Europe Solar Powered LED Street Light Consumption Value by Country (2025-2030) & (USD Million) Table 106. Asia-Pacific Solar Powered LED Street Light Sales Quantity by Type (2019-2024) & (K Units) Table 107. Asia-Pacific Solar Powered LED Street Light Sales Quantity by Type (2025-2030) & (K Units) Table 108. Asia-Pacific Solar Powered LED Street Light Sales Quantity by Application (2019-2024) & (K Units) Table 109. Asia-Pacific Solar Powered LED Street Light Sales Quantity by Application (2025-2030) & (K Units) Table 110. Asia-Pacific Solar Powered LED Street Light Sales Quantity by Region (2019-2024) & (K Units) Table 111. Asia-Pacific Solar Powered LED Street Light Sales Quantity by Region (2025-2030) & (K Units) Table 112. Asia-Pacific Solar Powered LED Street Light Consumption Value by Region (2019-2024) & (USD Million) Table 113. Asia-Pacific Solar Powered LED Street Light Consumption Value by Region (2025-2030) & (USD Million)



Table 114. South America Solar Powered LED Street Light Sales Quantity by Type (2019-2024) & (K Units)

Table 115. South America Solar Powered LED Street Light Sales Quantity by Type (2025-2030) & (K Units)

Table 116. South America Solar Powered LED Street Light Sales Quantity by Application (2019-2024) & (K Units)

Table 117. South America Solar Powered LED Street Light Sales Quantity by Application (2025-2030) & (K Units)

Table 118. South America Solar Powered LED Street Light Sales Quantity by Country (2019-2024) & (K Units)

Table 119. South America Solar Powered LED Street Light Sales Quantity by Country (2025-2030) & (K Units)

Table 120. South America Solar Powered LED Street Light Consumption Value by Country (2019-2024) & (USD Million)

Table 121. South America Solar Powered LED Street Light Consumption Value by Country (2025-2030) & (USD Million)

Table 122. Middle East & Africa Solar Powered LED Street Light Sales Quantity by Type (2019-2024) & (K Units)

Table 123. Middle East & Africa Solar Powered LED Street Light Sales Quantity by Type (2025-2030) & (K Units)

Table 124. Middle East & Africa Solar Powered LED Street Light Sales Quantity by Application (2019-2024) & (K Units)

Table 125. Middle East & Africa Solar Powered LED Street Light Sales Quantity by Application (2025-2030) & (K Units)

Table 126. Middle East & Africa Solar Powered LED Street Light Sales Quantity by Region (2019-2024) & (K Units)

Table 127. Middle East & Africa Solar Powered LED Street Light Sales Quantity by Region (2025-2030) & (K Units)

Table 128. Middle East & Africa Solar Powered LED Street Light Consumption Value by Region (2019-2024) & (USD Million)

Table 129. Middle East & Africa Solar Powered LED Street Light Consumption Value by Region (2025-2030) & (USD Million)

- Table 130. Solar Powered LED Street Light Raw Material
- Table 131. Key Manufacturers of Solar Powered LED Street Light Raw Materials
- Table 132. Solar Powered LED Street Light Typical Distributors
- Table 133. Solar Powered LED Street Light Typical Customers



### **List Of Figures**

#### LIST OF FIGURES

Figure 1. Solar Powered LED Street Light Picture

Figure 2. Global Solar Powered LED Street Light Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Solar Powered LED Street Light Consumption Value Market Share by Type in 2023

Figure 4. 30W-49W Examples

Figure 5. 50W-69W Examples

Figure 6. 70W-89W Examples

Figure 7. 90W-100W Examples

Figure 8. >100W Examples

Figure 9. Global Solar Powered LED Street Light Consumption Value by Application,

(USD Million), 2019 & 2023 & 2030

Figure 10. Global Solar Powered LED Street Light Consumption Value Market Share by Application in 2023

- Figure 11. City Road Examples
- Figure 12. Sidewalk Examples
- Figure 13. Square Examples
- Figure 14. School Examples
- Figure 15. Park Examples
- Figure 16. Residential Examples
- Figure 17. Factory Examples
- Figure 18. Others Examples

Figure 19. Global Solar Powered LED Street Light Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 20. Global Solar Powered LED Street Light Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 21. Global Solar Powered LED Street Light Sales Quantity (2019-2030) & (K Units)

Figure 22. Global Solar Powered LED Street Light Average Price (2019-2030) & (USD/Unit)

Figure 23. Global Solar Powered LED Street Light Sales Quantity Market Share by Manufacturer in 2023

Figure 24. Global Solar Powered LED Street Light Consumption Value Market Share by Manufacturer in 2023

Figure 25. Producer Shipments of Solar Powered LED Street Light by Manufacturer



Sales Quantity (\$MM) and Market Share (%): 2023 Figure 26. Top 3 Solar Powered LED Street Light Manufacturer (Consumption Value) Market Share in 2023 Figure 27. Top 6 Solar Powered LED Street Light Manufacturer (Consumption Value) Market Share in 2023 Figure 28. Global Solar Powered LED Street Light Sales Quantity Market Share by Region (2019-2030) Figure 29. Global Solar Powered LED Street Light Consumption Value Market Share by Region (2019-2030) Figure 30. North America Solar Powered LED Street Light Consumption Value (2019-2030) & (USD Million) Figure 31. Europe Solar Powered LED Street Light Consumption Value (2019-2030) & (USD Million) Figure 32. Asia-Pacific Solar Powered LED Street Light Consumption Value (2019-2030) & (USD Million) Figure 33. South America Solar Powered LED Street Light Consumption Value (2019-2030) & (USD Million) Figure 34. Middle East & Africa Solar Powered LED Street Light Consumption Value (2019-2030) & (USD Million) Figure 35. Global Solar Powered LED Street Light Sales Quantity Market Share by Type (2019-2030) Figure 36. Global Solar Powered LED Street Light Consumption Value Market Share by Type (2019-2030) Figure 37. Global Solar Powered LED Street Light Average Price by Type (2019-2030) & (USD/Unit) Figure 38. Global Solar Powered LED Street Light Sales Quantity Market Share by Application (2019-2030) Figure 39. Global Solar Powered LED Street Light Consumption Value Market Share by Application (2019-2030) Figure 40. Global Solar Powered LED Street Light Average Price by Application (2019-2030) & (USD/Unit) Figure 41. North America Solar Powered LED Street Light Sales Quantity Market Share by Type (2019-2030) Figure 42. North America Solar Powered LED Street Light Sales Quantity Market Share by Application (2019-2030) Figure 43. North America Solar Powered LED Street Light Sales Quantity Market Share by Country (2019-2030) Figure 44. North America Solar Powered LED Street Light Consumption Value Market

Share by Country (2019-2030)



Figure 45. United States Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. Canada Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. Mexico Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Europe Solar Powered LED Street Light Sales Quantity Market Share by Type (2019-2030)

Figure 49. Europe Solar Powered LED Street Light Sales Quantity Market Share by Application (2019-2030)

Figure 50. Europe Solar Powered LED Street Light Sales Quantity Market Share by Country (2019-2030)

Figure 51. Europe Solar Powered LED Street Light Consumption Value Market Share by Country (2019-2030)

Figure 52. Germany Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 53. France Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 54. United Kingdom Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Russia Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Italy Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Asia-Pacific Solar Powered LED Street Light Sales Quantity Market Share by Type (2019-2030)

Figure 58. Asia-Pacific Solar Powered LED Street Light Sales Quantity Market Share by Application (2019-2030)

Figure 59. Asia-Pacific Solar Powered LED Street Light Sales Quantity Market Share by Region (2019-2030)

Figure 60. Asia-Pacific Solar Powered LED Street Light Consumption Value Market Share by Region (2019-2030)

Figure 61. China Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. Japan Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 63. Korea Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 64. India Solar Powered LED Street Light Consumption Value and Growth Rate



(2019-2030) & (USD Million)

Figure 65. Southeast Asia Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Australia Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 67. South America Solar Powered LED Street Light Sales Quantity Market Share by Type (2019-2030)

Figure 68. South America Solar Powered LED Street Light Sales Quantity Market Share by Application (2019-2030)

Figure 69. South America Solar Powered LED Street Light Sales Quantity Market Share by Country (2019-2030)

Figure 70. South America Solar Powered LED Street Light Consumption Value Market Share by Country (2019-2030)

Figure 71. Brazil Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Argentina Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Middle East & Africa Solar Powered LED Street Light Sales Quantity Market Share by Type (2019-2030)

Figure 74. Middle East & Africa Solar Powered LED Street Light Sales Quantity Market Share by Application (2019-2030)

Figure 75. Middle East & Africa Solar Powered LED Street Light Sales Quantity Market Share by Region (2019-2030)

Figure 76. Middle East & Africa Solar Powered LED Street Light Consumption Value Market Share by Region (2019-2030)

Figure 77. Turkey Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 78. Egypt Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 79. Saudi Arabia Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 80. South Africa Solar Powered LED Street Light Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 81. Solar Powered LED Street Light Market Drivers

Figure 82. Solar Powered LED Street Light Market Restraints

Figure 83. Solar Powered LED Street Light Market Trends

Figure 84. Porters Five Forces Analysis

Figure 85. Manufacturing Cost Structure Analysis of Solar Powered LED Street Light in 2023



- Figure 86. Manufacturing Process Analysis of Solar Powered LED Street Light
- Figure 87. Solar Powered LED Street Light Industrial Chain
- Figure 88. Sales Quantity Channel: Direct to End-User vs Distributors
- Figure 89. Direct Channel Pros & Cons
- Figure 90. Indirect Channel Pros & Cons
- Figure 91. Methodology
- Figure 92. Research Process and Data Source



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