

# Single Axis Solar Tracker Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

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## Abstracts

The Global Single Axis Solar Tracker Market, valued at USD 31.4 Billion in 2024, is projected to expand at a CAGR of 7.1% from 2025 to 2034. The market is driven by the rising demand for solar energy and the adoption of advanced technologies. Single-axis solar trackers are mechanical systems designed to adjust the orientation of solar panels, ensuring they follow the sun's path throughout the day. This dynamic adjustment increases the efficiency of solar installations by optimizing panel positioning and enhancing energy output, making solar power generation more reliable.

As energy needs grow globally, the demand for solar solutions is also accelerating. Regions such as Asia-Pacific, the Middle East, and Africa are experiencing rapid growth due to the increasing need for renewable energy sources. Government incentives and abundant land for large-scale solar farms are further fueling the expansion of solar power projects. Moreover, integrating single-axis trackers with energy storage systems is becoming increasingly popular. This combination allows solar plants to store surplus energy produced during the day and supply it when energy demand is high, addressing the intermittent nature of solar power. Such innovations are likely to shape the future of the solar tracker market.

The market is also benefiting from the growing investments in clean energy, which are spurred by governmental support, regulations, and research funding. These efforts are designed to encourage the development of advanced solar technologies, including solar trackers. As more research is focused on improving the functionality and efficiency of these devices, the market is expected to continue its upward trajectory.

Single-axis solar trackers are available in two main types: horizontal and vertical.

Horizontal trackers are anticipated to surpass USD 50 Billion by 2034, owing to their widespread adoption for large-scale energy production. As environmental awareness rises, there is increasing pressure to reduce carbon emissions. Solar energy plays a pivotal role in this transition, offering a sustainable solution for clean power generation. The integration of advanced software and artificial intelligence further enhances the performance of horizontal trackers, optimizing their orientation and increasing energy generation.

In terms of application, the commercial and industrial sector is expected to see the most significant growth, with a CAGR exceeding 9% by 2034. The advancements in solar tracker technology, along with improvements in cost efficiency, make these solutions more accessible to a broader range of businesses. The commercial sector, in particular, is driving demand for more cost-effective and reliable solar power systems, further accelerating the adoption of single-axis trackers.

In the U.S., the single-axis solar tracker market is projected to exceed USD 55 Billion by 2034. The region's challenging weather conditions and the growing demand for renewable energy are pushing the need for more advanced solar trackers. These trackers not only enhance energy production but also qualify for additional incentives, making them more attractive to consumers and businesses alike. As government policies and subsidies continue to favor renewable energy adoption, the market for single-axis solar trackers in the U.S. is poised for robust growth.

## Contents

### **CHAPTER 1 METHODOLOGY & SCOPE**

- 1.1 Market definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculation
- 1.4 Primary research & validation
  - 1.4.1 Primary sources
  - 1.4.2 Data mining sources
- 1.5 Market Definitions

### **CHAPTER 2 EXECUTIVE SUMMARY**

- 2.1 Industry synopsis, 2021 – 2034

### **CHAPTER 3 INDUSTRY INSIGHTS**

- 3.1 Industry ecosystem
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
  - 3.3.1 Growth drivers
  - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
  - 3.5.1 Bargaining power of suppliers
  - 3.5.2 Bargaining power of buyers
  - 3.5.3 Threat of new entrants
  - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

### **CHAPTER 4 COMPETITIVE LANDSCAPE, 2024**

- 4.1 Introduction
- 4.2 Strategic dashboard
- 4.3 Innovation & sustainability landscape

### **CHAPTER 5 MARKET SIZE AND FORECAST, BY PRODUCT, 2021 – 2034 (USD MILLION & MW)**

*Single Axis Solar Tracker Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 20...*

5.1 Key trends

5.2 Horizontal

5.3 Vertical

## **CHAPTER 6 MARKET SIZE AND FORECAST, BY APPLICATION, 2021 – 2034 (USD MILLION & MW)**

6.1 Key trends

6.2 Residential

6.3 Commercial & Industrial

6.4 Utility

## **CHAPTER 7 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2034 (USD MILLION & MW)**

7.1 Key trends

7.2 North America

7.2.1 U.S.

7.2.2 Canada

7.2.3 Mexico

7.3 Europe

7.3.1 UK

7.3.2 France

7.3.3 Netherlands

7.3.4 Germany

7.3.5 Sweden

7.3.6 Spain

7.3.7 Austria

7.4 Asia Pacific

7.4.1 China

7.4.2 Australia

7.4.3 India

7.4.4 Japan

7.4.5 South Korea

7.5 Middle East

7.5.1 Saudi Arabia

7.5.2 UAE

7.5.3 Jordan

- 7.5.4 Israel
- 7.6 Africa
  - 7.6.1 South Africa
  - 7.6.2 Egypt
  - 7.6.3 Algeria
  - 7.6.4 Nigeria
  - 7.6.5 Morocco
- 7.7 Latin America
  - 7.7.1 Brazil
  - 7.7.2 Chile

## **CHAPTER 8 COMPANY PROFILES**

- 8.1 Abengoa
- 8.2 ArcelorMittal
- 8.3 Arctech
- 8.4 Array Technologies, Inc.
- 8.5 DEGERENERGIE GMBH & CO. KG
- 8.6 GameChange Solar
- 8.7 Gonvarri Solar Steel
- 8.8 Haosolar Co. Ltd
- 8.9 IDEEMATEC
- 8.10 MECASOLAR
- 8.11 NCLAVE
- 8.12 Nextracker Inc.
- 8.13 Powerway Renewable Energy Co., Ltd
- 8.14 PVHardware
- 8.15 Scorpius Trackers
- 8.16 SmartTrak Solar Systems (Pvt) Ltd.
- 8.17 SOLTEC
- 8.18 STI Norland
- 8.19 SunPower Corporation
- 8.20 Trina Solar
- 8.21 Valmont Industries, Inc.

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