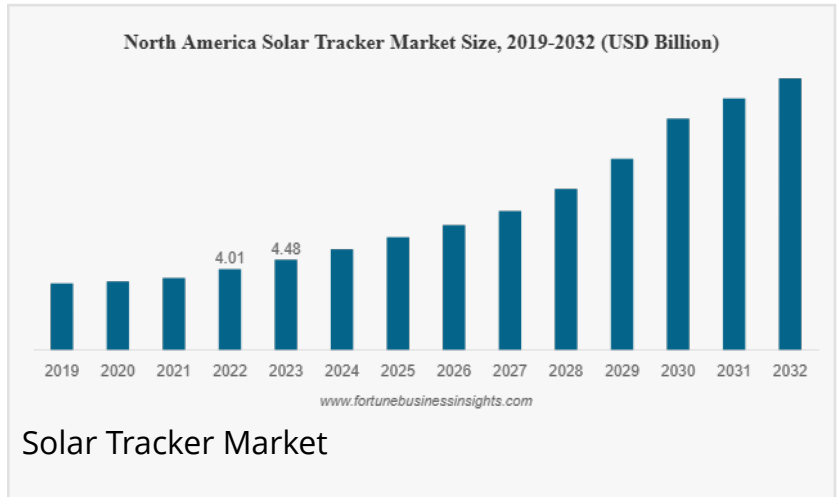


# The Global Solar Tracker Market Projected to Grow to USD 25.24 Billion by 2032 With a CAGR of 14.3%

List of Top Key Players in Solar Tracker industry are NEXTracker, Array Technologies, Trina Solar, SunPower Corporation, ArcelorMittal Projects, Soltec

PUNE, MAHARASHTRA, INDIA,  
September 30, 2025 /  
EINPresswire.com/ -- The global [solar tracker market](#) size was valued at USD 7.88 billion in 2023 and is projected to grow from USD 8.67 billion in 2024 to USD 25.24 billion by 2032, exhibiting a CAGR of 14.3% during the forecast period.



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North America dominated the global market with a share of 56.85 % in 2023."

*Fortune Business Insights*

Growth in this market is being driven by rising demand for higher energy yields in solar installations, supportive renewable energy policies, greater adoption of bifacial modules, and cost reduction pressure in utility-scale solar deployments. Solar tracker systems, which align photovoltaic (PV) panels with the sun's movement to

maximize irradiance capture, are increasingly preferred over fixed-tilt installations, especially in large-scale solar farms.

## Market Size & Growth Projections

The global solar tracker market size was valued at USD 7.88 billion in 2023 and is projected to grow from USD 8.67 billion in 2024 to USD 25.24 billion by 2032, exhibiting a CAGR of 14.3% during the forecast period. North America dominated the global market with a share of 56.85 % in 2023.

This trajectory underscores how performance optimization and yield enhancement are becoming essential in solar generation economics.

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## Key Drivers of Market Growth

### 1. Maximizing Energy Yield & Reducing LCOE

Trackers allow solar panels to follow the sun more directly, increasing energy capture over fixed systems, which helps lower the levelized cost of electricity (LCOE).

### 2. Policy Support, Incentives & Renewable Mandates

Many governments are implementing tax credits, feed-in tariffs, auctions, localization mandates, and clean energy targets that favor adoption of high-efficiency tracker systems.

### 3. Adoption of Bifacial & High-Efficiency Modules

Bifacial modules (capturing light from both faces) benefit more under tracker systems, driving combined deployment of tracker + bifacial systems.

### 4. Economies of Scale in Utility-Scale Solar Projects

As solar parks grow in size, the incremental cost of adding trackers is amortized over large capacity, making trackers more cost-effective in large deployments.

### 5. Technological Innovation & Automation

Developments like smarter control algorithms, terrain-following designs, reducing maintenance needs, and remote operation are improving reliability and reducing total cost of ownership.

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## Restraints / Challenges

- High Upfront Costs & Capital Expenditure

The capital cost of tracker structures, motors, controls, and installation adds to project costs compared to fixed-tilt systems.

- Maintenance, Reliability & Mechanical Failure Risks

Moving parts, bearings, actuators, and tracking electronics may require maintenance, increasing operational complexity.

- Site Constraints & Terrain Challenges

Uneven, rocky, or sloped terrain complicates installation of trackers; shading and alignment constraints may reduce gains.

- Supply Chain & Material Price Volatility

Fluctuations in steel, aluminum, control electronics, and logistics can impact costs and lead times.

- Competition from Advanced Fixed-Tilt Systems

In regions with lower irradiance variability or simpler layouts, optimized fixed-tilt with advanced module designs may compete.

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## Segmentation & Regional Analysis

- By Movement Type: Single-axis tracker, Dual-axis tracker
- By Technology / Type: Photovoltaic (PV), Concentrated Solar Power (CSP)
- By Installation / Mounting: Ground-mounted, Roof-mounted
- By Application / End-use: Utility-scale, Non-utility (commercial, residential)
- By Capacity / Size Bands: small (MW-level) to large (tens to hundreds of MW)

Globally, the single-axis tracker segment dominates in installations due to simpler mechanics and favorable cost-yield tradeoffs.

### Regional / Geographic Outlook

- North America

A mature market with high adoption of trackers, supported by large solar farms, federal incentives, and favorable financing.

- Asia Pacific

Rapid growth expected due to aggressive solar targets in China, India, Southeast Asia, and strong pipeline in utility solar deployment.

- Europe, Latin America, Middle East & Africa

Growing adoption as solar becomes increasingly competitive; Latin America is projected to see notable growth in tracker deployment in regions like Mexico and Brazil.

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## Report Coverage

This hypothetical report would include:

- Market Size & Forecast: Historical data, annual growth, and future projections
- Key Drivers & Restraints: Factors enabling and inhibiting growth
- Segmentation & Regional Analysis: Breakdown by movement type, technology, installation type, region, end-use
- Competitive Landscape: Major players, strategies, partnerships, innovation
- Regulatory & Policy Landscape: Clean energy policies, incentives, import/export regulations
- Technological Trends & Innovations: Smart trackers, AI control, terrain following, bifacial integration

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## Future Outlook & Emerging Trends

- Smart Tracking with AI & IoT Integration

Next-generation trackers are expected to leverage artificial intelligence (AI), machine learning (ML), and IoT sensors for predictive positioning, cloud cover forecasting, and real-time performance optimization. These features will improve efficiency and reduce human intervention in O&M.

- Hybrid Energy Systems with Trackers

The combination of solar trackers with battery energy storage systems (BESS) and hybrid renewable projects (solar + wind + storage) is gaining traction, as developers look for higher capacity factors and improved grid stability.

- Decentralized & Distributed Solar Tracker Deployment

While utility-scale farms dominate today, trackers are increasingly being adapted for commercial and industrial (C&I) projects, agrivoltaics (solar over farmland), and microgrids, enabling distributed renewable deployment.

- Robotics, Automation & Drones for O&M

Robotic cleaning systems and drone-based inspection are becoming integral to solar farms with trackers, ensuring reduced downtime and maintaining efficiency in regions prone to dust, sand, or snow.

- Durability in Harsh Climates

Future designs are focusing on wind-resistant, corrosion-proof, and terrain-flexible structures, making solar trackers viable in deserts, coastal regions, and high-altitude sites where earlier systems faced reliability challenges.

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### Competitive Landscape

Prominent players in the market include:

- NEXTracker (U.S.)
- Array Technologies (U.S.)
- Trina Solar (China)
- SunPower Corporation (U.S.)
- ArcelorMittal Projects (Luxembourg)
- Soltec (Spain)

- Convert Italia (Italy)
- PV Hardware (Spain)
- Arctech Solar (U.S.)
- Solar Steel (Spain)
- Ideematec (Germany)
- SunPower (U.S.)
- Scorpius Trackers (India)
- Sun Action Trackers (U.S.)

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