

Single Axis Solar Tracker Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Type (Horizontal Single Axis Trackers, Horizontal Single Axis Tracker with Tilted Modules, Vertical Single-Axis Solar Tracker, Vertical-Tilted Single-Axis Solar Tracker), Application (Home, Commercial, Workplace, Others), By Region, By Competition Forecast & Opportunities, 2018-2028

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Abstracts

The Global Single Axis Solar Tracker Market was valued at USD 23.78 Billion in 2022 and is growing at a CAGR of 25.80% during the forecast period. The emergence of Single Axis Solar Tracker technology has ushered in a transformative era, reshaping industries and sparking a digital revolution in HR management. These technological advancements form the foundation for the development of comprehensive digital HR ecosystems, ushering in an era marked by enhanced control over the workforce, optimization of HR functions, and the application of predictive analytics. The Global Single Axis Solar Tracker Market is poised for substantial growth, driven by a convergence of influential factors. One of the primary drivers fueling the demand for Single Axis Solar Tracker technology is the relentless pursuit of cost efficiency and heightened operational effectiveness across various HR functions within organizations. Industries spanning diverse sectors, from finance to healthcare, are actively seeking innovative solutions to streamline their HR operations, boost employee engagement, and maximize productivity. The arsenal of Single Axis Solar Tracker technology equips organizations with the means to digitize their HR processes comprehensively. This empowers them with a suite of capabilities to efficiently manage talent, monitor HR performance, proactively identify potential issues, and address workforce challenges.

The integration of Single Axis Solar Tracker technology is experiencing rapid growth, primarily propelled by the influx of data originating from various HR systems, employee interactions, and HR analytics tools. This data deluge represents a treasure trove of invaluable insights into HR performance, paving the way for data-driven decision-making, strategic HR planning, and the implementation of predictive HR analytics. Consequently, the adoption of Single Axis Solar Tracker technology is soaring across a multitude of sectors, including finance, healthcare, retail, and technology. Furthermore, industry experts and HR professionals have enthusiastically embraced the adoption of Single Axis Solar Tracker technology, further reinforcing its market potential. Experienced HR practitioners from various domains wholeheartedly recognize the transformative potential of HR SaaS technology, envisioning it as a conduit to elevate HR efficiency, amplify employee engagement, and boost overall workforce productivity. A notable aspect of HR SaaS technology is its capacity to tailor bespoke HR solutions to meet the specific needs of various industries. For example, in the healthcare sector, Single Axis Solar Tracker facilitates comprehensive HR management. It enables the creation of digital HR profiles for employees, streamlines HR performance monitoring, and offers HR analytics customized to address the distinctive demands of healthcare institutions. This personalized approach invariably leads to enhanced HR operations, improved patient care, and elevated HR outcomes.

In conclusion, the Global Single Axis Solar Tracker Market stands at the forefront of remarkable expansion. This growth is driven by an unwavering commitment to cost efficiency, operational excellence, and the steadfast support of HR experts and industry leaders. As organizations continue their journey towards HR digital transformation, Single Axis Solar Tracker remains a cornerstone, meticulously shaping the future landscape of HR operations and workforce management. The luminous potential of Single Axis Solar Tracker serves as a guiding beacon for organizations worldwide, illuminating the path toward an era of unparalleled HR efficiency, elevated employee engagement, and groundbreaking innovation.

Key Market Drivers

Increasing Solar Energy Adoption

The global single-axis solar tracker market is currently experiencing a significant surge in demand, primarily driven by the increasing adoption of solar energy worldwide. This burgeoning trend is propelled by a multitude of factors, collectively contributing to the exponential growth of the solar energy industry and, consequently, the rising demand for single-axis solar trackers. One of the key drivers behind the growing adoption of

solar energy is the pressing need to transition towards more sustainable and environmentally friendly energy sources. In the face of mounting concerns regarding climate change and the depletion of finite fossil fuel resources, solar power emerges as a clean and renewable alternative that can significantly reduce greenhouse gas emissions and combat global warming. Governments, corporations, and individuals alike are increasingly recognizing the urgency of embracing solar energy as a means to reduce their carbon footprint and contribute to a greener future. Furthermore, advancements in solar technology have significantly improved the efficiency and affordability of solar panels. Innovations in photovoltaic cells, materials, and manufacturing processes have resulted in a steady decrease in the cost of solar panels, making solar energy more accessible to a broader spectrum of consumers. As a result, homeowners, businesses, and utilities are more inclined to invest in solar power systems, further boosting the demand for single-axis solar trackers. Single-axis solar trackers play a pivotal role in enhancing the efficiency and energy output of solar photovoltaic systems. These tracking systems are designed to follow the sun's path throughout the day, tilting and rotating solar panels to maximize their exposure to sunlight. This dynamic positioning allows solar panels to capture more sunlight and generate a higher yield of electricity compared to fixed-tilt systems. As a result, solar power systems equipped with single-axis trackers can produce significantly more energy, making them an attractive option for both residential and commercial applications. Another critical factor contributing to the rise of single-axis solar trackers is their ability to improve the overall return on investment for solar projects. By increasing the energy production of solar panels, these tracking systems can accelerate the payback period for solar installations. This financial incentive is particularly appealing to businesses and utilities looking to optimize the economic viability of their solar investments. Moreover, the global push for renewable energy sources and the implementation of supportive government policies and incentives are fostering a favorable environment for solar energy adoption. Various nations are introducing renewable energy targets, feed-in tariffs, tax credits, and other financial incentives to encourage the deployment of solar power systems. These policies not only stimulate the demand for solar energy but also incentivize the integration of single-axis solar trackers to maximize energy generation. In conclusion, the increasing adoption of solar energy is driving the global demand for single-axis solar trackers. As the world strives to reduce its reliance on fossil fuels and combat climate change, solar power stands out as a clean and sustainable energy source. The continuous advancements in solar technology, coupled with favorable government policies and incentives, have made solar energy more affordable and attractive. Single-axis solar trackers enhance the efficiency of solar photovoltaic systems, increasing their energy output and improving the return on investment for solar projects. Consequently, the market for single-axis

solar trackers is experiencing rapid growth, playing a vital role in the global transition toward a greener and more sustainable energy future.

Cost Reduction and Efficiency Enhancement:

The global single-axis solar tracker market is experiencing a robust growth trajectory, primarily catalyzed by two interrelated factors: cost reduction and efficiency enhancement. These twin pillars of progress have become the driving forces behind the remarkable expansion of the single-axis solar tracker industry, as they combine to make solar energy more accessible, financially viable, and environmentally sustainable. Cost reduction has emerged as a pivotal factor influencing the adoption of single-axis solar trackers. Over the years, significant advancements in technology, manufacturing processes, and economies of scale have led to a substantial decrease in the cost of producing these tracking systems. These cost reductions make single-axis trackers more affordable for a broader range of solar energy projects, from small-scale residential installations to utility-scale solar farms. Efficiency enhancement is another key driver fueling the global demand for single-axis solar trackers. These tracking systems are designed to follow the sun's path, ensuring that solar panels are optimally positioned to capture sunlight throughout the day. This dynamic orientation significantly boosts the energy output of solar photovoltaic systems compared to fixed-tilt installations. By increasing the efficiency of energy conversion, single-axis trackers help project owners and investors generate more electricity from their solar installations, thus maximizing their return on investment. The efficiency enhancement achieved through single-axis solar trackers is particularly critical in regions with high solar irradiance and variable weather conditions. By adapting to changing sun angles and conditions, these trackers mitigate energy losses caused by shading and suboptimal panel orientation. This adaptability ensures a more consistent and reliable energy generation, enhancing the overall performance of solar projects. Furthermore, the increased efficiency of single-axis trackers directly contributes to the sustainability of solar energy. Solar power is widely recognized as an eco-friendly and renewable energy source, and the use of tracking systems amplifies its environmental benefits. By generating more electricity with the same number of solar panels, single-axis trackers effectively reduce the land and resource requirements for solar installations. This translates into a smaller environmental footprint and a lower overall impact on ecosystems. The global transition to cleaner and more sustainable energy sources is driving governments and regulatory bodies to introduce supportive policies and incentives. These measures are often designed to accelerate the adoption of solar energy and align with international climate goals. Such policies can include feed-in tariffs, tax credits, rebates, and renewable energy mandates, all of which stimulate the demand for solar power systems equipped

with single-axis trackers. Additionally, the scalability of single-axis tracker technology makes it suitable for a wide range of applications, from residential rooftops to large utility-scale solar farms. This versatility allows stakeholders across various sectors to harness the benefits of solar tracking systems, further contributing to their global proliferation. In summary, the global single-axis solar tracker market is being propelled by the dual forces of cost reduction and efficiency enhancement. As technology advances and economies of scale come into play, the cost of single-axis trackers is decreasing, making them accessible to a broader range of solar projects.

Simultaneously, these trackers significantly enhance the efficiency and energy output of solar photovoltaic systems, maximizing the return on investment for project owners and contributing to the environmental sustainability of solar energy. With supportive policies and incentives further bolstering the adoption of solar tracking technology, the global market for single-axis solar trackers is poised for continued growth, playing a pivotal role in the transition toward a more sustainable and renewable energy future..

Sustainability and Environmental Concerns

Government incentives and policies are playing a pivotal role in propelling the global single-axis solar tracker market forward. These regulatory measures, designed to promote the adoption of renewable energy sources and enhance energy efficiency, are fostering a conducive environment for the widespread integration of single-axis solar trackers. One of the primary drivers of the single-axis solar tracker market is the array of financial incentives offered by governments around the world. These incentives come in various forms, including tax credits, rebates, grants, and subsidies. By reducing the upfront costs associated with installing solar tracking systems, these financial incentives make the technology more financially viable for individuals, businesses, and utilities. In turn, this encourages greater investment in single-axis solar trackers and boosts their adoption across a wide range of applications. Additionally, feed-in tariffs (FiTs) and power purchase agreements (PPAs) have become essential tools in incentivizing the use of solar tracking technology. These policies guarantee a fixed or premium rate for the electricity generated by solar installations equipped with single-axis trackers. Such arrangements not only ensure a steady revenue stream for project owners but also make solar projects more attractive to investors, as they provide predictable returns over an extended period. Moreover, governments are increasingly setting renewable energy targets and mandates to accelerate the transition toward cleaner energy sources. These targets often include specific goals for solar energy adoption. As a result, utilities and energy providers are incentivized to integrate single-axis solar trackers into their solar farms and projects to meet these targets. These trackers enhance energy production, making it easier for utilities to achieve their renewable

energy goals and fulfill regulatory requirements. Environmental regulations and sustainability initiatives also play a significant role in driving the single-axis solar tracker market. Many governments are imposing carbon reduction targets and emissions limits, driving the transition from fossil fuels to renewable energy sources like solar power. Single-axis trackers contribute to this transition by increasing the efficiency of solar installations, reducing their carbon footprint, and aligning with sustainability objectives. In some regions, governments implement net metering policies, allowing homeowners and businesses to feed excess solar-generated electricity back into the grid. Single-axis trackers can significantly increase the amount of surplus energy generated, further incentivizing solar adoption. This surplus energy can be monetized or used as credit against future energy bills, making solar tracking systems even more economically appealing. Additionally, research and development incentives provided by governments encourage innovation in the single-axis solar tracker industry. These incentives facilitate the development of more advanced and cost-effective tracking technologies, ultimately benefitting consumers and project developers. Government-funded research programs often focus on improving tracker reliability, reducing maintenance requirements, and enhancing overall system performance. Government policies also extend to trade and import regulations, ensuring that the solar tracking industry has access to the necessary components and materials for production. Tariffs and import restrictions can significantly impact the cost and availability of solar trackers. Governments that prioritize renewable energy often work to streamline the importation of essential components, making it easier for manufacturers to produce and distribute single-axis solar tracking systems. In conclusion, government incentives and policies are instrumental in driving the global single-axis solar tracker market. These measures reduce the financial barriers to adopting solar tracking technology, promote renewable energy adoption, and create a favorable regulatory environment. As governments worldwide continue to prioritize clean energy and sustainability, the market for single-axis solar trackers is poised for continued growth, playing a critical role in the global transition towards a more sustainable and renewable energy future..

Key Market Challenges

Cost Considerations: Despite the overall reduction in the cost of single-axis solar trackers, their upfront expenses can still be a barrier for some potential adopters. The initial investment required for purchasing and installing tracking systems can be substantial, especially for residential and small-scale solar projects. Additionally, the complexity of these systems can result in higher installation and maintenance costs, which may deter budget-conscious consumers. While government incentives and subsidies partially mitigate this challenge, addressing the cost-effectiveness of single-

axis trackers remains crucial to ensuring their widespread adoption.

Maintenance and Reliability: Single-axis solar trackers are intricate mechanical systems with moving parts that are exposed to the elements day in and day out. This exposure can lead to wear and tear over time, potentially resulting in increased maintenance requirements and reduced system reliability. Frequent maintenance can be costly and time-consuming, which may discourage potential adopters. Ensuring the long-term reliability and durability of single-axis trackers is a significant challenge that manufacturers and developers need to address to maintain customer confidence and market growth. Developing more robust, low-maintenance designs and materials is a critical step in overcoming this challenge.

Land and Space Requirements: While single-axis solar trackers can significantly increase the energy yield of solar installations, they also require more land or space compared to fixed-tilt systems. This land use can be a limiting factor, especially in densely populated areas or regions with land scarcity. Finding suitable locations for solar farms equipped with single-axis trackers can be challenging, as it often involves navigating zoning regulations, land acquisition, and competing land-use interests. Additionally, the environmental impact of land use for solar projects, including habitat disruption and soil degradation, can raise concerns and regulatory challenges. Striking a balance between maximizing energy production and responsible land use is a complex challenge in the global single-axis solar tracker market..

Key Market Trends

Growing Demand for Dual-Axis Tracking Systems:

One notable trend in the global single-axis solar tracker market is the increasing interest in dual-axis tracking systems. While single-axis trackers have been the dominant choice for enhancing solar panel efficiency by allowing them to follow the sun's east-west path, dual-axis trackers take it a step further. They also adjust the tilt of solar panels to follow the sun's north-south movement throughout the day, ensuring panels are always at the optimal angle to capture sunlight. The demand for dual-axis trackers stems from their potential to generate even higher energy yields compared to single-axis trackers. Dual-axis trackers can increase energy production by up to 20-30% over fixed-tilt systems, making them attractive for solar projects where maximizing energy output is a priority. This trend is particularly evident in regions with high solar irradiance or in applications where space is limited, such as rooftop solar installations. As the technology continues to evolve and become more cost-effective, it is likely that dual-axis trackers will gain

further traction in the global solar tracker market.

Integration of Advanced Tracking Algorithms and Control Systems:

Another significant trend in the single-axis solar tracker market is the integration of advanced tracking algorithms and control systems. These systems leverage real-time data from various sources, including weather forecasts, sunlight intensity, and panel temperature, to optimize the orientation and positioning of solar panels for maximum energy capture. Advanced tracking algorithms enable single-axis trackers to adapt to changing weather conditions and variable solar radiation levels, ensuring that panels are always aligned optimally. This dynamic tracking capability enhances energy yield and grid stability, especially in regions with fluctuating weather patterns. Furthermore, predictive maintenance algorithms are being integrated into tracking systems, allowing for proactive maintenance and reducing downtime. In addition, the incorporation of IoT (Internet of Things) technology and data analytics is enabling remote monitoring and control of single-axis trackers. This trend improves system performance, reduces operational costs, and enhances overall reliability. It also allows for real-time performance monitoring, which is essential for large-scale solar projects, where even minor efficiency improvements can translate into substantial energy savings.

Growth in Bifacial Solar Panels and Compatibility with Trackers:

Bifacial solar panels, which can capture sunlight from both sides of the module, have gained popularity in the global solar industry. A trend accompanying the rise of bifacial panels is the development of single-axis trackers specifically designed to optimize their performance. Bifacial panels can significantly increase energy production, especially when mounted on single-axis trackers that allow sunlight to reach the rear side of the panels. To capitalize on this potential, tracker manufacturers are designing systems with features that maximize the efficiency of bifacial panels. This includes features such as elevated mounting structures and increased ground clearance to enable better light penetration and reflection. The compatibility of single-axis trackers with bifacial panels is expected to drive their joint adoption in solar projects, as it offers a cost-effective means of boosting energy output. As bifacial technology matures and becomes more widely available, this trend is likely to further accelerate the adoption of both bifacial panels and specialized single-axis tracking systems..

Segmental Insights

Type Insights Most of the turnover in 2022 was provided by the repair segment, which,

according to forecasts, will continue to dominate in the following years. Horizontal Single Axis Trackers (HSAT): Advantages: HSATs are designed to track the sun's movement along the east-west axis throughout the day. They are known for their simplicity and cost-effectiveness compared to other tracking systems.

Dominance: Horizontal single-axis trackers have traditionally been a popular choice in the solar tracker market due to their relatively lower cost and ease of installation. They offer a significant increase in energy generation compared to fixed-tilt systems and are commonly used in utility-scale solar projects...

Regional Insights

North America, particularly the United States, was a dominant region in the single-axis solar tracker market. The U.S. had a robust solar energy industry, driven by federal and state-level incentives, tax credits, and renewable energy targets. Additionally, the vast availability of land in some regions allowed for the deployment of large utility-scale solar projects, making single-axis trackers an attractive choice to maximize energy production. North America held a significant market share due to its substantial utility-scale solar capacity and the adoption of advanced tracking technologies..

Key Market Players

Haosolar Co. Ltd

NEXTRACKER INC.

All Earth Renewables

MECASOLAR

H2-Trina Solar

DEGERENERGIE GMBH & CO. KG, LTD

GameChange Solar

SunPower Corporation

ARRAY TECHNOLOGIES, INC.

SmartTrak Solar Systems (Pvt) Ltd.

Report Scope:

In this report, the Global Single Axis Solar Tracker Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Single Axis Solar Tracker Market, By Type:

Horizontal Single Axis Trackers

Horizontal Single Axis Tracker with Tilted Modules

Vertical Single-Axis Solar Tracker

Vertical-Tilted Single-Axis Solar Tracker

Global Single Axis Solar Tracker Market, By Application:

Home

Commercial Workplace

Others

Global Single Axis Solar Tracker Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Single Axis Solar Tracker Market.

Available Customizations:

Global Single Axis Solar Tracker Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMERS

5. GLOBAL SINGLE AXIS SOLAR TRACKER MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Horizontal Single Axis Trackers, Horizontal Single Axis Tracker with Tilted Modules, Vertical Single-Axis Solar Tracker, Vertical-Tilted Single-Axis Solar Tracker)
 - 5.2.2. By Application (Home, Commercial, Workplace, Others)
 - 5.2.3. By Region
- 5.3. By Company (2022)
- 5.4. Market Map

6. NORTH AMERICA SINGLE AXIS SOLAR TRACKER MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Application

6.2.3. By Country

6.3. North America: Country Analysis

6.3.1. United States Single Axis Solar Tracker Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By Application

6.3.2. Canada Single Axis Solar Tracker Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Type

6.3.2.2.2. By Application

6.3.3. Mexico Single Axis Solar Tracker Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Type

6.3.3.2.2. By Application

7. ASIA-PACIFIC SINGLE AXIS SOLAR TRACKER MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Application

7.2.3. By Country

7.3. Asia-Pacific: Country Analysis

7.3.1. China Single Axis Solar Tracker Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

- 7.3.1.2.1. By Type
- 7.3.1.2.2. By Application
- 7.3.2. India Single Axis Solar Tracker Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By Application
- 7.3.3. Japan Single Axis Solar Tracker Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Application
- 7.3.4. South Korea Single Axis Solar Tracker Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By Application
- 7.3.5. Australia Single Axis Solar Tracker Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Application

8. EUROPE SINGLE AXIS SOLAR TRACKER MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Application
 - 8.2.3. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. Germany Single Axis Solar Tracker Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value

- 8.3.1.2. Market Share & Forecast
- 8.3.2. United Kingdom Single Axis Solar Tracker Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Application
- 8.3.3. France Single Axis Solar Tracker Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Application
- 8.3.4. Italy Single Axis Solar Tracker Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Application
- 8.3.5. Spain Single Axis Solar Tracker Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Application

9. SOUTH AMERICA SINGLE AXIS SOLAR TRACKER MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Application
 - 9.2.3. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Single Axis Solar Tracker Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast

- 9.3.1.2.1. By Type
- 9.3.1.2.2. By Application
- 9.3.2. Argentina Single Axis Solar Tracker Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Application
- 9.3.3. Colombia Single Axis Solar Tracker Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Application

10. MIDDLE EAST & AFRICA SINGLE AXIS SOLAR TRACKER MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Application
 - 10.2.3. By Country
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Saudi Arabia Single Axis Solar Tracker Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By Application
 - 10.3.2. South Africa Single Axis Solar Tracker Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Application
 - 10.3.3. UAE Single Axis Solar Tracker Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Type

10.3.3.2.2. By Application

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenge

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

13.1. Haosolar Co. Ltd

13.1.1. Business Overview

13.1.2. Key Revenue and Financials

13.1.3. Recent Developments

13.1.4. Key Personnel

13.1.5. Key Product/Services

13.2. NEXTRACKER INC.

13.2.1. Business Overview

13.2.2. Key Revenue and Financials

13.2.3. Recent Developments

13.2.4. Key Personnel

13.2.5. Key Product/Services

13.3. All Earth Renewables

13.3.1. Business Overview

13.3.2. Key Revenue and Financials

13.3.3. Recent Developments

13.3.4. Key Personnel

13.3.5. Key Product/Services

13.4. MECASOLAR

13.4.1. Business Overview

13.4.2. Key Revenue and Financials

13.4.3. Recent Developments

13.4.4. Key Personnel

13.4.5. Key Product/Services

13.5. H2-Trina Solar

13.5.1. Business Overview

- 13.5.2. Key Revenue and Financials
- 13.5.3. Recent Developments
- 13.5.4. Key Personnel
- 13.5.5. Key Product/Services
- 13.6. DEGERENERGIE GMBH & CO. KG, LTD
 - 13.6.1. Business Overview
 - 13.6.2. Key Revenue and Financials
 - 13.6.3. Recent Developments
 - 13.6.4. Key Personnel
 - 13.6.5. Key Product/Services
- 13.7. GameChange Solar
 - 13.7.1. Business Overview
 - 13.7.2. Key Revenue and Financials
 - 13.7.3. Recent Developments
 - 13.7.4. Key Personnel
 - 13.7.5. Key Product/Services
- 13.8. SunPower Corporation
 - 13.8.1. Business Overview
 - 13.8.2. Key Revenue and Financials
 - 13.8.3. Recent Developments
 - 13.8.4. Key Personnel
 - 13.8.5. Key Product/Services
- 13.9. ARRAY TECHNOLOGIES, INC.
 - 13.9.1. Business Overview
 - 13.9.2. Key Revenue and Financials
 - 13.9.3. Recent Developments
 - 13.9.4. Key Personnel
 - 13.9.5. Key Product/Services
- 13.10. SmartTrak Solar Systems (Pvt) Ltd.
 - 13.10.1. Business Overview
 - 13.10.2. Key Revenue and Financials
 - 13.10.3. Recent Developments
 - 13.10.4. Key Personnel
 - 13.10.5. Key Product/Services

14. STRATEGIC RECOMMENDATIONS

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