

Industrial Concentrated Photovoltaic Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented by Product (Reflector and Refractor), By Concentration (Low and High), By Region, By Competition 2018-2028.

<https://marketpublishers.com/r/ID38F657886CEN.html>

Date: October 2023

Pages: 178

Price: US\$ 4,900.00 (Single User License)

ID: ID38F657886CEN

Abstracts

Global Industrial Concentrated Photovoltaic Market has valued at USD 388 Million in 2022 and is anticipated to project robust growth in the

forecast period with a CAGR of 7.48% through 2028. The increasing demand for centralized photovoltaic (CPV) applications is projected to drive growth in energy purchase agreements between private companies and electricity boards. The global CPV industry is expected to experience market competition, improved reliability, and enhanced efficiency in the coming years. Moreover, incentives and government subsidies aimed at achieving renewable energy objectives are likely to contribute to the growth of the global photovoltaic concentrator market. Cost efficiency and the utilization of renewable energy resources are anticipated to be the primary drivers of demand in the forecast period.

Key Market Drivers

High Energy Conversion Efficiency

High Energy Conversion Efficiency is poised to be the driving force behind the growth of the Global Industrial Concentrated Photovoltaic (CPV) Market. As the world grapples with the increasing demand for clean and sustainable energy sources, CPV technology has emerged as a promising solution. CPV systems differ from traditional photovoltaic panels by utilizing optical components such as lenses and mirrors to concentrate

sunlight onto highly efficient multi-junction solar cells. This unique approach to harnessing solar energy brings forth a multitude of advantages, with energy conversion efficiency standing at the forefront.

The primary advantage of high energy conversion efficiency in CPV systems is the ability to generate more electricity from the same amount of sunlight. This directly translates into higher energy yields, making CPV a financially attractive option for Industrial applications. With more electricity being produced per unit area, CPV installations require less land compared to traditional solar panels, a valuable resource in densely populated urban areas. Furthermore, CPV systems are particularly effective in regions with high direct sunlight, making them an ideal choice for sun-drenched locations. Their efficiency allows businesses to maximize energy production, reduce their carbon footprint, and significantly lower energy costs. This economic viability is a compelling factor that drives the growth of the Industrial CPV market.

Additionally, the scalability of CPV systems allows for flexibility in design and installation, making them suitable for various Industrial settings, from large industrial facilities to small businesses. This versatility enhances their appeal and accessibility to a broader range of consumers. In conclusion, the Global Industrial Concentrated Photovoltaic Market is set to experience robust growth, primarily due to the emphasis on high energy conversion efficiency. As the world seeks sustainable energy solutions, CPV technology's ability to generate more electricity from sunlight, reduce land requirements, and lower energy costs positions it as a promising player in the renewable energy landscape. With ongoing advancements in CPV technology, we can expect this market to continue expanding and contributing significantly to the transition towards clean and efficient energy production on a global scale.

Increasing Demand for Clean and Sustainable Energy

The Global Industrial Concentrated Photovoltaic (CPV) Market is poised for substantial growth, primarily propelled by the increasing demand for clean and sustainable energy sources. In a world increasingly aware of the environmental challenges posed by fossil fuels and the urgency of mitigating climate change, CPV technology has emerged as a compelling solution, aligning with the global shift towards renewable energy. The escalating demand for clean energy stems from several key factors. First and foremost, there is growing recognition of the need to reduce greenhouse gas emissions and transition away from carbon-intensive energy sources. Governments, businesses, and individuals are increasingly committed to sustainability goals, seeking energy alternatives that can significantly decrease their carbon footprint. CPV systems, with

their ability to harness solar energy efficiently, offer a compelling avenue to achieve these objectives.

Furthermore, the finite nature of fossil fuels and the volatility of energy prices in the global market make renewable energy sources, like CPV, an attractive and sustainable alternative. With CPV technology's high energy conversion efficiency, businesses can generate more electricity from sunlight, reducing their reliance on non-renewable resources and insulating themselves from energy price fluctuations. Another driving force behind the growth of the Industrial CPV market is the need for energy independence and resilience. Many businesses are investing in on-site renewable energy solutions, such as CPV systems, to secure a reliable energy supply and reduce vulnerability to grid disruptions and energy supply chain uncertainties.

Additionally, governments worldwide are providing incentives and subsidies to promote the adoption of renewable energy technologies, further fueling the demand for CPV systems. These incentives include tax credits, feed-in tariffs, and regulatory mandates that encourage businesses to embrace clean energy options. In conclusion, the increasing demand for clean and sustainable energy is a driving force behind the Global Industrial Concentrated Photovoltaic Market. CPV technology, with its efficiency, reliability, and environmental benefits, is well-positioned to meet this demand and play a pivotal role in shaping a more sustainable and resilient energy future for businesses and societies worldwide. As the world continues to prioritize green energy solutions, the Industrial CPV market is poised for significant expansion and innovation.

Grid Integration and Energy Security

Grid integration and energy security are poised to be major drivers of growth in the Global Industrial Concentrated Photovoltaic (CPV) Market. As the world faces the dual challenges of meeting growing energy demand and ensuring a stable and resilient energy supply, CPV technology has emerged as a critical solution. Grid integration plays a pivotal role in the Industrial CPV market's success. CPV systems are capable of generating electricity with high efficiency, making them an attractive choice for businesses seeking to reduce their dependence on conventional grid power. These systems can be seamlessly integrated into existing electrical grids, allowing businesses to generate their own clean energy while maintaining a connection to the grid for additional power needs. This flexibility is crucial for companies to optimize energy consumption and costs, especially during peak demand periods when grid electricity can be more expensive.

Moreover, grid integration enables businesses to benefit from net metering and feed excess energy back into the grid, earning them credits or financial incentives. This not only reduces electricity bills but also contributes to a more stable and balanced grid, enhancing energy security. Energy security is another compelling driver of the Industrial CPV market. With the increasing frequency of extreme weather events, grid disruptions, and cyber threats, businesses are recognizing the importance of having a reliable and resilient energy source. CPV systems, with their ability to generate power on-site, provide a level of energy security that grid-dependent businesses cannot achieve. In the event of grid failures or emergencies, CPV systems continue to produce electricity, ensuring business operations can proceed uninterrupted.

Furthermore, CPV technology excels in regions with abundant sunlight, making it particularly suitable for areas prone to grid instability or unreliable power supply. This aligns with the broader trend of distributed energy generation and microgrids, allowing businesses to maintain control over their energy supply and reduce vulnerability to external factors. In conclusion, grid integration and energy security are driving forces behind the growth of the Global Industrial Concentrated Photovoltaic Market. The ability to seamlessly integrate CPV systems into existing grids and enhance energy resilience positions CPV as an attractive choice for businesses worldwide. As concerns about grid stability and energy security continue to rise, CPV technology's adaptability and reliability are expected to play a significant role in shaping the future of Industrial energy generation.

Key Market Challenges

Land and Space Requirements

Concentrated Photovoltaic (CPV) systems necessitate a significant amount of land or space to accommodate the concentrating optics and tracking systems that trace the sun's trajectory throughout the day. This requirement for land or space can present a challenge, especially in densely populated areas where available land is limited or costly.

In regions with competing land-use interests, like agriculture or urban development, acquiring suitable sites for CPV installations can be demanding. Striking a balance between the imperative for renewable energy generation and other land-use priorities and environmental considerations demands meticulous planning and, in some instances, land-use policies that endorse renewable energy projects.

Moreover, the need for extensive land or space can curtail the scalability of CPV projects in certain locations. Tackling this challenge may involve the development of innovative CPV designs that are more compact or exploring the integration of CPV with other land-use practices, such as agrivoltaics (the combination of agriculture and solar energy generation).

Variability in Solar Irradiance

CPV systems rely heavily on direct sunlight for optimal performance. While they excel in regions with high solar irradiance and clear skies, their efficiency can be significantly influenced by weather conditions, cloud cover, and shading. The variability in solar irradiance presents a challenge to the reliable and consistent operation of CPV systems.

In areas where weather patterns are unpredictable or cloud cover is frequent, CPV systems may experience fluctuations in electricity generation, leading to challenges in grid integration. Utilities and grid operators must consider this variability and develop strategies to manage the intermittent nature of CPV-generated power.

Mitigating the impact of variable solar irradiance may involve integrating energy storage systems to store excess electricity during sunny periods and dispatch it during cloudy or low-light conditions. Additionally, enhanced weather forecasting and advanced tracking technologies can optimize CPV system performance and grid integration.

Key Market Trends

Technological Advancements and Efficiency Improvements

A notable trend observed in the global concentrated photovoltaic (CPV) market is the continuous technological advancements and efficiency improvements in CPV systems. With the solar industry's ongoing pursuit of enhancing energy conversion efficiency, CPV has emerged as a focal point due to its potential to deliver higher efficiency compared to traditional photovoltaic (PV) systems.

CPV systems employ optical components, such as lenses or mirrors, to concentrate sunlight onto high-efficiency solar cells. This concentration of sunlight significantly enhances the electricity generation capability of CPV systems. Recent advancements in optical design, materials, and solar cell technology have resulted in significant improvements in CPV efficiency.

An area of key innovation lies in the design of advanced concentrator optics. Companies are actively developing more efficient and precise optical elements capable of concentrating sunlight onto small, high-efficiency multi-junction solar cells. These advancements have led to CPV systems achieving conversion efficiencies of 40% or higher, surpassing those of traditional PV systems.

Furthermore, improvements in tracking systems, which ensure accurate alignment of CPV modules with the sun's path throughout the day, contribute to enhanced energy yields. Advanced tracking technologies are becoming increasingly reliable, accurate, and cost-effective, enabling CPV systems to maintain optimal alignment with the sun.

Hybrid Systems and Energy Storage Integration

Hybrid systems that integrate CPV with other renewable energy technologies, such as energy storage or traditional PV, are a significant trend in the CPV market. These hybrid configurations offer several advantages, including enhanced grid integration, improved energy generation reliability, and the ability to provide electricity during periods of low sunlight.

One commonly adopted hybrid approach involves integrating CPV with energy storage systems, typically incorporating advanced batteries. Energy storage enables the storage and dispatch of excess electricity generated during sunny periods, effectively addressing the intermittency of solar power. This is particularly crucial for ensuring consistent power supply in off-grid and remote areas.

Moreover, CPV-photovoltaic hybrid systems that combine CPV and traditional PV technologies are gaining momentum. These systems leverage CPV's concentrating optics to optimize efficiency in sunny conditions, while relying on PV modules for stable and consistent power output under diffused or low-light conditions.

Segmental Insights

Product Insights

The Refractor segment is projected to experience rapid growth during the forecast period. Refractors are optical elements, typically composed of transparent materials such as glass or acrylic, that refract or bend sunlight to achieve the desired concentration. They play a fundamental role in Concentrated Photovoltaic (CPV)

systems by focusing sunlight onto solar cells. Refractors effectively refract incoming sunlight, altering its path to increase the intensity of light reaching the solar cells. This concentration of sunlight significantly enhances the energy conversion efficiency of CPV systems.

One common type of refractor utilized in CPV systems is the Fresnel lens. These lenses consist of concentric grooves or ridges on a flat surface, enabling them to effectively concentrate sunlight. Renowned for their compact design, Fresnel lenses are frequently employed in CPV applications. Continual research and development efforts within the CPV industry aim to enhance refractor efficiency. Innovations in refractor design, materials, and manufacturing techniques contribute to achieving higher concentration ratios and overall system performance improvements.

While refractors are crucial for CPV efficiency, cost-effectiveness remains a significant consideration. Manufacturers are continuously striving to develop refractor solutions that meet optical performance requirements without significantly increasing the overall system cost.

The environmental impact of refractors is garnering increased attention. Manufacturers are exploring the use of recyclable materials and sustainable production processes to reduce the environmental footprint of refractors employed in CPV systems.

Regional Insights

Asia Pacific emerged as the dominant player in the global concentrated photovoltaic market in 2022, holding the largest market share.

The Asia-Pacific region plays a significant role in the global concentrated photovoltaic (CPV) market owing to its increasing energy demands, growing emphasis on renewable energy, and rapid expansion of the solar industry. The Asia-Pacific region is home to populous countries, including China and India, which are experiencing rapid urbanization and industrialization. Consequently, there is a substantial and rising demand for electricity in the region. This demand, coupled with a growing interest in clean energy solutions, presents significant growth potential for the CPV market.

Numerous countries in the Asia-Pacific region possess abundant solar resources, including high levels of direct sunlight. These favorable conditions make CPV an attractive option for electricity generation. CPV systems are renowned for their efficiency in converting sunlight into electricity, making them a suitable choice for

harnessing solar energy in this region.

Several countries in the Asia-Pacific region have implemented supportive policies and incentives to promote the adoption of renewable energy technologies, including CPV. These policies often include feed-in tariffs, tax incentives, and renewable energy targets, which encourage investments in CPV projects.

The Asia-Pacific region is witnessing an increasing interest in high-efficiency solar technologies. CPV's ability to achieve higher conversion efficiencies compared to traditional photovoltaic systems aligns with the region's pursuit of more efficient and cost-effective renewable energy solutions.

Some projects in the Asia-Pacific region are exploring hybrid solar solutions that combine CPV with other solar technologies or energy storage systems. These combinations can enhance energy generation reliability and grid integration.

Key Market Players

Radical Sun Systems, Inc.

SolAero Technologies Corp.

Arzon Solar LLC.

Cool Earth Solar

Morgan Solar Inc.

ARIMA Group

Suncore Photovoltaic Technology Company Limited

Sumitomo Electric Industries, Ltd.

Saint-Augustin Canada Electric Inc. (STACE)

Sanan Optoelectronics Technology Co., Ltd

Report Scope:

In this report, the Global Industrial Concentrated Photovoltaic Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Concentrated Industrial Photovoltaic Market, By Product:

Reflector

Refractor

Concentrated Industrial Photovoltaic Market, By Concentration:

Low

High

Global Industrial Concentrated Photovoltaic Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

Egypt

UAE

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Industrial Concentrated Photovoltaic Market.

Available Customizations:

Global Industrial Concentrated Photovoltaic Market report with the given market data,

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Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

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

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